Ahtna Engineering Services, LLC
110 W. 38th St. Suite 200A
Anchorage, AK 99503
www.ahtnaes.com
Phone: 907.646.2969; Fax: 907.561.5475

March 27, 2014

Mr. Bryan Chernick, Response Manager
Environmental Quality Management, Inc.
18939 120th Avenue NE, Suite 103
Bothell, Washington 98011

Subject: Vapor Intrusion Mitigation Services
4th and Gambell Site – Anchorage, Alaska

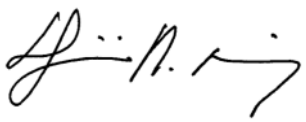
Dear Mr. Chernick:

Ahtna Engineering Services, LLC (AES) is pleased to provide Environmental Quality Management, Inc. (EQM) with this proposal for the above referenced project. To provide EQM with the highest value, AES has assembled a team of highly qualified individuals with years of site-specific vapor intrusion experience in the four buildings at this site. The AES team has a proven track record of safely and efficiently installing mitigation systems throughout Alaska and consistently meeting mitigation goals. Due to the emergency response nature of this project, AES understands that efficiency and quality are of the highest objectives. To meet these objectives, AES offers many technical advantages described herein over other candidates. One of the key advantages we offer is to provide a team where the lead design engineer will also be the construction lead onsite through all phases of this effort. This will ensure the consistency and efficiency needed to meet and exceed the mitigation objective of protecting indoor air quality from vapor intrusion.

This proposal is valid for 90 days from the closing date for receipt of proposals. The required deliverables are contained in the sections that follow. I am the contact person for this proposal and can be reached via phone at 907-646-2969, or e-mail at nmuniz@ahtna.net.

Sincerely,

Ahtna Engineering Services, LLC



Herminio (Nino) Muniz, P.G.
Contract Manager

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Attachments:

1. Schedule of Pricing (with backup costing sheets provided)
2. Adds/Deducts Sheets
3. General Approach to Each Property
4. Project Schedule
5. Related Company Experience
6. AK State Contractors/Business License
7. Required and Appropriate Certifications
8. EQ Representations and Certifications
9. Proof of Insurance

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1.0 Schedule of Pricing

The following pages provide the Schedule of Prices as required in the RFP. We have also attached our breakdown of labor and other direct costs (ODC) to support our lump sum amounts. These sheets also provide labor rates and ODC amounts for the Adds/Deducts sheet presented in Section 2.

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SCHEDULE OF PRICING

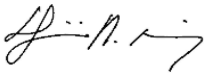
4th and Gambell Site

Company Name Ahtna Engineering Services, LLC

ITEM	QTY	UNIT	UNIT PRICE	TOTAL NTE
1. Workplan	1	Lump Sum	$9,070	$9,070.00
2. Installation Remedy for 710 E 3rd	1	Lump Sum	$20,915	$20,915.00
3. Installation Remedy for 720 E 3rd	1	Lump Sum	$23,391	$23,391.00
4. Installation Remedy for 736 E 3rd Duplex - SOUTH	1	Lump Sum	$9,962	$9,962.00
5. Installation Remedy for 736 E 3rd Duplex - NORTH	1	Lump Sum	$24,968	$24,968.00
6. Final Design, Project Summary and MM&R P	1	Lump Sum	$9,745	$9,745.00
TOTAL NTE PRICE				**$98,051.00**

Phone 907.646.2969 **Fax** 907.561.5475

Authorized Representative: Herminio (Nino) Muniz, PG

Signature  **Date** March 27, 2014

Subcontract POC Name: Olga Stewart, PE **Phone** 907.646.2969

Site Project Manager Name: Nathan Oberlee **Phone** 907.317.2473

Detailed Labor and Cost Summary
Vapor Intrusion Mitigation and Indoor Air Sampling
EQ - 4th and Gambell

	Administrative Assistant	Technical Editor	Junior Engineer	Associate Scientist	Construction Technician	Senior Engineer	Technical Officer	Project Manager	Contract Administrator	Subtotal	
	Johns	*Quintans*	*Fox*	*Kirk*	*Rasmussen*	*Oberlee*	*Martich*	*Stewart*	*Sagiao*		
Rate Per Hour	$79.00	$122.00	$105.00	$100.00	$66.00	$125.00	$165.00	$100.00	$131.00	Hours	Ahtna Labor Cost
Task											
I Work Plan and MM&R Plan	2	3	4	30		12	6	8	6	71	$8,020
II Implement Work Plan											
710 E. 3rd	1		3	12	10	10	3	2		41	$4,199
720 E. 3rd	1		3	0	12	16	3	2		37	$3,881
South Duplex	1		3	18	18	22	3	2		67	$6,827
North Duplex	1		3	18	18	22	3	2		67	$6,827
III Reporting (and Final MMR Plan)	2	4	8	32	4	15	8	8		81	$8,945
	8	**7**	**24**	**110**	**62**	**97**	**26**	**24**	**6**	**364**	**$38,699**
									TOTAL LABOR COST	**$38,699**	
									TOTAL ODC (pg 2)	**$59,352**	
									PROJECT TOTAL	***$98,051***	

Other Direct Costs (ODC) Detail
Vapor Intrusion Mitigation and Indoor Air Sampling
EQ - 4th and Gambell

	OTHER DIRECT COSTS:	No. of Units	Unit	Cost per Unit	Subtotal	
Task I	**Work Plan and MM&R Plan**					
	Drafting services	1	estimate	$1,000	$1,000	
	Work Plan Production	1	copies	$50	$50	
					Subtotal	**$1,050**
Task II	**Implement Work Plan**					
	710 East 3rd					
	Retro-Coat Product	1128	SqFt	$4	$4,512	
	Retro-Coat Product Shipping	1	LS	$500	$500	
	Retro-Coat Installation (PetroChem)	1128	SqFt	$8	$9,024	
	2" Schedule 80 PVC Conveyance Piping	40	ft	$4	$160	
	Extraction well materials	2	each	$150	$300	
	4" Schedule 80 PVC Exhaust Stack Piping	25	ft	$8	$200	
	PVC Fittings (unions, 90, tees)	10	each	$20	$200	
	10-mil - Vapor Barrier Liner	400	SqFt	$0.50	$200	
	Liner Tape (4" x 180' rolls)	1	rolls	$65	$65	
	Perimeter Liner Tape (Permalon - 1.5" x 100' rolls)	1	rolls	$75	$75	
	4" Perforated PVC Piping	30	ft	$3	$90	
	Wind Turbine Roof Vents	2	each	$120	$240	
	Tools and Equipment	1	LS	$350	$350	
	Air Samples (TO-15 Low Level)- ALS Laboratory	1	each	$200	$200	
	Tedlar bags and shipping	1	estimate	$400	$400	
	Radon Samples-Univ S California	2	each	$100	$200	
					Subtotal	**$16,716**
	720 East 3rd					
	Retro-Coat Product	1420	SqFt	$4	$5,680	
	Retro-Coat Product Shipping	1	LS	$500	$500	
	Retro-Coat Installation (PetroChem)	1420	SqFt	$8	$11,360	
	2" Schedule 80 PVC Conveyance Piping	40	ft	$4	$160	
	Extraction well materials	2	each	$150	$300	
	4" Schedule 80 PVC Exhaust Stack Piping	25	ft	$8	$200	
	PVC Fittings (unions, 90, tees)	6	each	$20	$120	
	Wind Turbine Roof Vents	2	each	$120	$240	
	Crawl Space Vents	2	each	$100	$200	
	Tools and Equipment	1	LS	$350	$350	
	Air Samples (TO-15 Low Level)-ALS Laboratory	1	each	$200	$200	
	Radon Samples-USC	2	each	$100	$200	
					Subtotal	**$19,510**
	North Duplex					
	Retro-Coat Product and Installation	1128	SqFt	$4	$4,512	
	Retro-Coat Product Shipping	1	LS	$500	$500	
	Retro-Coat Installation (PetroChem)	1128	SqFt	$8	$9,024	
	10-mil - Vapor Barrier Liner	2700	SqFt	$0.50	$1,350	
	Liner Tape (4" x 180' rolls)	2	rolls	$65	$130	
	Perimeter Liner Tape (Permalon - 1.5" x 100' rolls)	2	rolls	$75	$150	
	4" Perforated PVC Piping	60	ft	$3	$180	
	4" Schedule 40 PVC Conveyance Piping	30	ft	$5	$150	
	4" Schedule 80 PVC Exhaust Stack Piping	40	ft	$8	$320	
	2" Schedule 80 PVC Conveyance Piping	40	ft	$4	$160	
	Extraction well materials	2	each	$150	$300	
	PVC Fittings (unions, 90, tees)	15	each	$25	$375	
	Wind Turbine Roof Vents	2	each	$120	$240	
	Tools and Equipment	1	LS	$350	$350	
	Air Samples (TO-15 Low Level)-ALS Laboratory	1	each	$200	$200	
	Radon Samples-USC	2	each	$100	$200	
					Subtotal	**$18,141**
	South Duplex					
	10 mil - Vapor Barrier Liner	1500	SqFt	$0.50	$750	
	Liner Tape (4" x 180' rolls)	2	rolls	$60	$120	
	Perimeter Liner Tape (Permalon - 1.5" x 100' rolls)	2	rolls	$70	$140	
	4" Perforated PVC Piping	80	ft	$3	$240	
	4" Schedule 40 PVC Conveyance Piping	40	ft	$5	$200	
	4" Schedule 80 PVC Exhaust Stack Piping	40	ft	$8	$320	
	PVC Fittings (unions, 90, tees)	15	each	$25	$375	
	Wind Turbine Roof Vents	2	each	$120	$240	
	Tools and Equipment	1	LS	$350	$350	
	Air Samples (TO-15 Low Level)-ALS Laboratory	1	each	$200	$200	
	Radon Samples-USC	2	each	$100	$200	
					Subtotal	**$3,135**
Task III	**Reporting (and Final MMR Plan)**					
	Drafting services	1	estimate	$700	$700	
	Report Production	1	copies	$100	$100	
					Subtotal	**$800**

DIRECT COST TOTAL:	**$59,352**

Chargeable Equipment and Materials Estimate

Equipment		Day	Week	Month	Quantity	Amount
Pumps						
	Peristaltic Pump	$30	$120	$360		
	Submersible Sampling Pump (Stainless Steel)	$100	$400	$1,200		
	Submersible Trash Pump	$30	$120	$360		
Water Levels and Probes						
	Water Level Meter	$20	$80	$240		
	Water Level Datalogger	$10	$40	$120		
	Water Temperature Datalogger	$10	$40	$120		
	Oil/Water Interface Probe	$50	$200	$600		
Water Monitoring						
	Water Quality Meter with Flow Through Cell	$125	$500	$1,500		
	Turbidity Meter	$30	$120	$360		
	Pore Water Sampler	$15	$60	$180		
Biological Monitoring						
	Backpack Electro-Shocker	$520	$2,080	$6,240		
	Fisheries Sampling Gear (nets, traps, etc.)	$40	$160	$480		
Air Monitoring						
	PID	$70	$280	$840		
	Multi-Gas Meter	$100	$400	$1,200		
	Helium Detector	$140	$560	$1,680		
	Vacuum Air Pump (120 or 12-volt)	$10	$40	$120		
	Air Velocity Meter	$30	$120	$360		
	Magnehelic Gauge Set	$10	$40	$120		
	Rotometer Gauge Set	$20	$80	$240		
	Vapor Intrusion Hood Assembly	$40	$160	$480		
	SVE/Bioventing Pilot Test System	$250	$1,000	$3,000		
Surveying Instruments						
	Survey Equipment	$30	$120	$360		
	Mobile GIS Work Station	$140	$560	$1,680		
	GPS (High Precision)	$125	$500	$1,500		
	GPS (Moderate Precision with Mapping)	$50	$200	$600		
	GPS (Low Precision)	$15	$60	$180		
Tools						
	Tool Kit	$10	$40	$120	2	$80
	Generator (2 & 5 kW)	$30	$120	$360	2	$240
	Jackhammer	$50	$200	$600	1	$200
	Geoprobe Equipment	$100	$400	$1,200		
	Cordless Power Tools	$30	$120	$360	2	$240
	Magnetic Locator	$30	$120	$360		
Electronics						
	Digital Camera	$10	$40	$120	1	$40
	Underwater Camera	$200	$800	$2,400		
	Downhole Camera	$180	$720	$2,160		
	Field Computer	$20	$80	$240		
	Projector	$60	$240	$720		
	Video Camera	$40	$160	$480		
Ahtna Vehicles						
	Expedition / Panel Van / Truck	$50	NA	NA	6	$300
	Sample Raft	$200	$800	$2,400		
	Power Boat	$500	$2,000	$6,000		
Field Test Instruments						
	Petroflag	$70	$280	$840		
	HACH - Iron Tests	$3	$10	$30		
	HACH - CO_2	$5	$20	$60		
	Chemetrics	$10	$40	$120		
	Hand Pump for Colorimetric Tubes (GT, Draeger, etc.)	$10	$40	$120		
	AP Buck Color Tec Kit for CL	$20	$80	$240		
				Equipment Subtotal		**$ 1,100**

Safety & PPE		Day	Week	Month	Quantity	Amount
	Level A	$150	$600	$1,800		
	Level B	$100	$400	$1,200		
	Level C	$50	$200	$600		
	Level D (Hardhat, Steel-Toed Boots, Gloves, Glasses)	$5	$20	$60	2	$40
	Dosimeter - Sound Level Meter	$60	$240	$720		
	Arctic Gear	$50	$200	$600		
	River Gear	$10	$40	$120		
	Signs/Cones/Barriers	$20	$80	$240		
					Safety & PPE Subtotal	**$ 40**

Materials		Units	Rate	Quantity	Amount
Field Tests					
	Petroflag Tests - each	test	$40		$ -
	HACH Iron Tests - Color Disc	test	$0.30		$ -
	HACH CO_2 kit	test	$0.30		$ -
	Colorimetric Tubes - Chem Spec (GT, Draeger, etc.)	test	$10		$ -
Sampling Supplies					
	Tedlar Bags	each	$22.00		$ -
	Drums	each	$121.00		$ -
	Soil Gas Points (screen/tubing)	each	$99.00		$ -
	MI VOC Sampling Equipment	each	$50.00		$ -
	Metal Filters	each	$17.60		$ -
	Disposable Sample Spoons	each	$0.50		$ -
	Silicone Tubing	ft	$3.10		$ -
	Nylon Tubing	ft	$0.60		$ -
	Certified Clean Polyethylene Tubing	ft	$0.60		$ -
	Teflon-Lined Poly Tubing	ft	$2.30		$ -
	Padlock	each	$5.50		$ -
	Resealable Bags	box	$4.95		$ -
	Garbage Bags	box	$7.70	1	$ 7.70
	Sample Gloves	100	$14.85		$ -
				Materials Subtotal	**$ 7.70**

Vehicle Mileage (From Vehicle Log - Office Use Only)		Units	Rate	Quantity	Amount
	Expedition / Panel Van / Truck	mile	$0.55		$ -
				Mileage Subtotal	**$ -**

Equipment Subtotal:	***$***	***1,100.00***
PPE Subtotal:	***$***	***40.00***
Materials Subtotal:	***$***	***7.70***
TOTAL:	***$***	***1,147.70***

Project Name Alaska Real Estate Parking Lot

Field Personnel

Project / Phase / Task #

Charges for Dates:

Project Managers Signature

Date

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2.0 Adds/Deducts Sheet

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Description	Unit	Quantity	Unit Price	Total
Labor	**Hours**			
Additional labor rates, if required, will be charged using the rates on the attached Detailed Labor Rate Schedule.				
Equipment	**Daily**			
Additional equiment, if required, will be charged using the rates on the attached Chargeable Equipment Rate Schedule				
Materials				
Additional material, if required, will be charged using the rates on the attached Other Direct Costs and/or Chargeable Equipment Rate Schedule				
Subcontractors				
Moving and Storage Contractor	per house		$ 1,000.00	$ -
Emerald Services (soil cuttings disposal, if needed)	drum		$ 800.00	$ -
Carpet Replacement	sq. ft.		$ 5.00	$ -

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3.0 General Approach to Each Property

PUPORSE

AES understands that the purpose of this project is to mitigate exposure to PCE and other chlorinated VOC compounds from the vapor intrusion pathway into 710 East 3rd, 720 East 3rd, and the North and South Duplexes at 736 East 3rd Avenue.

PERTINENT BACKGROUND INFORMATION

The primary contaminants of concern (COC) for the 4th and Gambell site are tetrachloroethene (PCE) and its degradation products trichloroethene (TCE), dichloroethene (DCE) isomers, and vinyl chloride. The primary source of PCE is presumably the former C&K Sanitary Cleaners located in Subarea I, which has been a parking lot since 1978. Subarea II located immediately north of Subarea I contains single and multi-family residences. The four buildings requiring mitigation are located in Subarea II.

The following highlights key events in the characterization of the vapor intrusion pathway for the 4th and Gambell site:

- In March 2009, the Alaska Department of Environmental Conservation (ADEC) led an initial vapor intrusion assessment, including installation and sampling of soil vapor monitoring points adjacent to and indoor air/crawl space air samples collected inside the four residential buildings. PCE concentrations in the indoor and crawl space samples exceeded the then current ADEC indoor target level for all four buildings.
- In the spring of 2009, the owner of the two duplexes self-installed submembrane depressurization (SMD) system in each building.
- ADEC again sampled the four buildings in June 2009, February 2010, and May 2010 with PCE concentrations in indoor air and crawl space samples exceeding the then current ADEC indoor target level nearly every time for all four buildings.
- In 2010, ADEC inspected the SMD mitigation systems in the two duplexes and noted unsealed membrane seams and no pressure field coverage of the partial concrete slab in the North Duplex and a potentially inoperable fan in the South Duplex.
- In 2012, the USEPA led a site inspection that included indoor and crawl space air sampling of the four buildings with the North Duplex exceeding the now current ADEC indoor air target level.
- In February 2014, EPA conducted building surveys for each of the four buildings.

APPROACH FOR EACH BUILDING

Work Plan

AES will develop a project specific work plan for this project. The work plan will be inclusive for all four buildings and will include:

- Introduction and background with details for project objectives; regulatory framework; and key personnel and subcontractors.
- Design specifications and drawings for the four vapor mitigation systems;
- Methodology for installation of vapor mitigation systems, diagnostic testing and air sampling;
- Quality Assurance Project Plan with indicators for quantifying attainment of data quality objectives;
- Waste management plan;
- Schedule for project execution and communication;
- Draft Maintenance, Monitoring, and Repair (MM&R) Plan;

- Site-specific health and safety plan in accordance with state and federal standards; and
- Field forms and standard operating procedures.

Prior to and during work plan development, our project manager, Ms. Olga Stewart, PE, will confer with the EQM project manager, Mr. Bryan Chernick, and the USEPA client to discuss project objectives, execution, milestones, and communication requirements. Ms. Stewart will spearhead work plan development. Our project engineer, Mr. Nate Oberlee, will assist with work plan development by preparing design specifications for vapor mitigation systems in each building and drafting the Maintenance, Monitoring and Repair (MM&R) plan. We assume that Mr. Oberlee will be able to access the four buildings during the timeframe of work plan development in order to craft building-specific designs for each structure. In addition, the site inspection will allow assessment of whether the tenants will require additional moving support to clear personal effects from the basements and crawl spaces of each building. In our bid, AES has included a total of 4 man-hours to clear remaining items from all the buildings and provide for secure storage. If greater effort is required based on observations during the site inspections, additional costs for moving and storage are included on the Adds/Deducts list.

Following approval of the final work plan and issuance of Notice to Begin Site Work (assumed to be May 1), we will begin procurement of supplies and scheduling with subcontractors to initiate field activities. It is our understanding that USEPA is unable to begin field activities until May 12, which is reflected in our project schedule, but if that changes we are ready to begin field activities before May 12.

The following provides our general approach to mitigating each building. The primary objective of the mitigation systems is to reduce contaminant vapors in the buildings below the residential indoor air target levels for COCs. Secondary objectives for these systems are to be cost effective for both installation and operation, and easy to operate and maintain so that property owners can assist with long-term operations and management.

736 East 3rd Avenue – North Duplex

The North Duplex is constructed on a foundation that contains a partial basement with a concrete slab and a partial dirt floor crawl space. A combination of a vapor tight concrete coating and passive sub-slab depressurization (SSD) for the concrete foundation, and crawl space membrane and passive SMD will be used to mitigate vapor intrusion of contaminants in the North Duplex.

Two depressurization wells will be evenly located in the laundry room and workshop area of the basement to assist in removal of accumulated vapors from beneath the slab. AES personnel will install the 2-inch diameter vapor extraction wells using a combination of hand tools and a HEPA vacuum to remove cuttings down to a depth of approximately 12-inches below the concrete slab. This installation method is effective for installing wells to the desired depth and reduces fugitive dust in the building. Each well will contain a 12-inch screened interval that will be bedded in silica sand. The well riser will be sealed to the concrete slab with a low VOC and vapor tight construction epoxy. Each depressurization well will be routed through 2-inch diameter rigid Schedule 80 PVC conveyance piping to a common exhaust line.

Additional mitigation of contaminant entry vertically through the concrete slab and laterally through the foundation walls will be

accomplished by sealing the surfaces with the vapor intrusion coating system, Retro-Coat™, by Land Science Technologies. PetroChem, an installer that is trained and certified by the Land Science Technologies, will prepare the surfaces and apply Retro-Coat. Retro-Coat is a traffic bearing surface and does not require a protective cover over it. Retro-Coat product comes in a variety of colors, and we will use the color desired by the property owner. Prior to sealing, the installers will prep the surfaces by patching/sealing any major cracks and around utilities with an epoxy grout; grinding the floor to a CSP-3 smoothness profile; thoroughly cleaning all surfaces; sealing any cracks or penetrations with a vapor tight caulk; and applying a primer that ensures proper adhesion of Retro-Coat.

A SMD system will be installed in the L-shaped crawl space along the North and East sides of the building. Two sections of 4-inch diameter perforated PVC piping will be installed on the floor of the crawl space. The perforated PVC will be attached to 4-inch Schedule 40 PVC conveyance piping that will be routed to the common exhaust stack along with the depressurization wells. A 10-mil thick, VaporBlock® vapor barrier will be installed along the floor of the crawl space. The vapor barrier seams will be sealed with a 4-inch wide vapor barrier tape specified by the manufacturer. The vapor barrier will be sealed to the Retro-Coat on the perimeter foundation walls using Permalon® liner tape to ensure a competent seal.

The conveyance piping from the depressurization wells and the SMD system will be routed to two 4-inch diameter exhaust stacks. As these are passive systems, care will be taken to route piping in the most direct route possible to minimize head-loss from joints and fittings. The exhaust stacks will be constructed of Schedule 80 PVC piping for increased durability and so the dark color of the pipe will absorb heat and increase the chimney effect inside the exhaust stack. The stacks will be routed vertically up the side of the house and extend a minimum of 2' above the peak of the house to ensure adequate dispersion of vapors and to reduce the risk of back drafting into the home. A wind turbine will be affixed to the top of the exhaust stack to assist in the induction of negative pressure inside the stack to increase flow during wind events. The wind turbine will have a cover to protect it from precipitation entering the conveyance piping.

Based on historical sampling results, the North Duplex poses the greatest potential risk from vapor intrusion. The passive mitigation system will be designed and installed with great care to provide the best seal possible to mitigate vapor intrusion. As a secondary measure, conveyance and exhaust piping will be situated in locations where a high efficiency radon style fan could be installed in the future if elevated indoor air concentrations persist and modifications are required to ensure mitigation.

710 East 3rd Avenue

The residence at 710 East 3rd Avenue is constructed on a foundation that contains a basement with a concrete slab and a dirt floor crawl space. A combination of a vapor resistant concrete coating and passive SSD for the foundation floor and walls, and crawl space membrane and passive SMD will be used to mitigate vapor intrusion of contaminants in the building.

Two depressurization wells will be evenly located in the basement of the house to assist with removal of accumulated vapors from beneath the slab. The depressurization wells will be installed using the same methods as described above for the North Duplex site. Each depressurization well will be routed

through 2" diameter rigid Schedule 80 PVC conveyance piping to a common exhaust line.

Migration of contaminants vertically through the concrete slab and laterally through the foundation walls in the basement will be mitigated by sealing the surfaces with the vapor intrusion coating system, Retro-Coat™, by Land Science Technologies. The Retro-Coat will be applied using the same methods as described above for the North Duplex. For this technology to effectively block contaminants, all areas must be sealed. Therefore, the carpet in the northwest bedroom will be removed to seal the concrete beneath it. If this is disagreeable to the property owner, costs to replace the carpet are included in the Add/Deduct list should it be required.

A SMD system will be installed in the L-shaped crawl space along the North and East sides of the house. Two sections of 4-inch diameter perforated PVC piping will be installed on the floor of the crawl space. The perforated PVC will be attached to 4-inch Schedule 40 PVC conveyance piping that will be routed to the common exhaust stack along with the depressurization wells. A 10-mil thick, VaporBlock® vapor barrier will be installed along the floor and walls of the crawl space. The vapor barrier seams will be sealed with a 4-inch wide vapor barrier tape specified by the manufacturer. The vapor barrier will be sealed to the sill plate at the top of the foundation walls using Permalon liner tape to ensure a competent seal.

The conveyance piping from the depressurization wells and the SMD system will be routed to a common 4-inch diameter exhaust stack using the same construction methods as described for the North Duplex.

720 East 3rd Avenue

The residence at 720 East 3rd Avenue was originally constructed on a concrete block foundation and a basement. An addition was added on the north side of the building that is supported by posts. A combination of a vapor tight concrete coating and passive SSD for the foundation floor and walls, and passive crawl space ventilation will be used to mitigate vapor intrusion of contaminants in this structure.

Two depressurization wells will be evenly located in the basement of the house to remove accumulated vapors from beneath the slab. The depressurization wells will be installed using the same methods as described above for the North Duplex. Each depressurization well will be routed through 2-iinch diameter rigid Schedule 80 PVC conveyance piping to a common exhaust line.

Migration of contaminants vertically through the concrete slab and laterally through the foundation walls will be mitigated by sealing the surfaces with the vapor intrusion coating system, Retro-Coat™, by Land Science Technologies. Retro-Coat will be applied using the same methods as described above. The carpet in the common area, north bedroom, and tool room will be removed prior to Retro-Coat installation. Additional costs for replacement, if necessary, will be managed as described above for 710 East 3rd Avenue.

The crawl space area on the north end of the building does not pose as great of a risk for vapor intrusion because it is an above grade structure supported by posts. AES proposes to mitigate the accumulation of vapors under the addition by installing passive venting on both the East and West walls of the crawl space. The additional vents will provide cross-ventilation to promote fresh air exchange.

736 East 3rd Avenue – South Duplex

The South Duplex is constructed on a crawl space foundation that extends under the entire structure. A crawl space membrane and passive

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Anchorage, AK 99503
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SMD system will be used to mitigate vapor intrusion of contaminants in the South Duplex.

A SMD system will be installed across the entire crawl space. Two sections of 4-inch diameter perforated PVC piping will be installed longitudinally along the floor of the crawl space. The perforated PVC will be attached to 4-inch Schedule 40 PVC conveyance piping that will be routed to an exhaust stack. A 10-mil thick, VaporBlock® vapor barrier will be installed along the floor and walls of the crawl space. The vapor barrier seams will be sealed with a 4-inch wide vapor barrier tape specified by the manufacturer. The vapor barrier will be sealed to the sill plate at the top of the foundation walls using Permalon liner tape to ensure a competent seal.

The conveyance piping from the SMD system will be routed to two separate 4-inch diameter exhaust stacks to promote additional airflow over such a large area. The exhaust stacks will be constructed of Schedule 80 PVC piping using the same methods as described above.

A Draft Maintenance, Monitoring and Repair (MM&R) Plan will be developed with the work plan. The MM&R plan will describe the routine inspections and maintenance each mitigation system will need in order to ensure the systems are sustainable over the long term. The Draft MM&R plan will be finalized based on as-built site conditions and will be included with the final report. AES will remain as the main point of contact with the ADEC to facilitate long term execution of the MM&R plan.

Field Communications

Our project engineer, Mr. Nate Oberlee, will be present for all field activities. He will provide daily reports to our project manager, Ms. Olga Stewart, and the EQM project manager, Mr. Bryan Chernick, during all phases of field operations. The reports will include a summary of the day's work activities, planned work for the next day, and a Health and Safety update. The daily reports will also be accompanied by supporting documentation as needed to make project activities clear (i.e., field forms, digital photographs).

Health and Safety

AES will perform all work in compliance with the site-specific Health, Safety and Environment Plan developed in the work plan. Records of daily safety meetings and safety observations will be maintained in the field documentation. Prior to work, each crawlspace will be assessed for health and safety risks such as acute or asphyxiate vapors, explosive conditions, and other physical risks. This evaluation will be performed in order to ensure the spaces are not classified as OSHA Permitted Confined Space. We assume the crawl spaces are suitable for working and are not OSHA Permitted Confined Spaces.

Waste Management

The investigative derived waste (IDW) generated during the effort is expected to include soil cuttings from the installation of the depressurization wells at the site and various PPE materials utilized during the remedial effort. Based on site-specific knowledge of the extent of the release, it is not anticipated that the soil removed during the installation of the wells will have been in direct contact with the PCE product. With prior EPA approval, the soil will be handled and disposed of as solid waste. However, if it is determined that soil cuttings from the wells requires management as a F-Listed hazardous waste, the soil will be properly containerized, labeled and disposed of through Emerald Alaska.

The remaining IDW, including disposable sample gloves, paper towels, dust masks, scrap liner material and various other waste generated during the effort will be bagged and

taped shut and placed in a solid waste receptacle for disposal at the Anchorage Municipal Landfill.

Personnel

The installation activities will be led by our project engineer, Mr. Nate Oberlee. He will be assisted by other AES staff as needed. We will coordinate with the property owners and building tenants to conduct field activities at times and days when most convenient. AES will provide generator power for the field activities for use if site power is unavailable.

AES will subcontract PetroChem to install the Retro-Coat product. PetroChem is certified by Land Sciences as a qualified installer of their product. PetroChem installation rates include Davis Bacon Wages and certified payrolls will be submitted per the RFP requirements.

Diagnostic Testing

Passive SSD and SMD systems generally cannot be directly tested for efficacy because of the low flow and low vacuum produced within the extraction lines. As innovative approach to diagnostic testing, we will collect pre- and post-installation radon samples in the basements and crawlspaces to document radon levels in indoor air. Radon is present in soil across the United States and usually is detectable in indoor air. A steady or lower radon concentration for post-installation is evidence that the passive mitigation systems are effective.

Air Sampling

Another line of evidence for efficacy of the passive mitigation systems is to conduct indoor air sampling post-installation to confirm that indoor air concentrations for COCs are less than indoor air target levels. We will collect a 24-hour indoor air sample in the basement or crawlspace of each building after installation activities are complete. The samples will be collected in 100%-certified clean, 6-liter summa canisters for analysis by EPA TO-15. Prior to sampling, we will review existing building surveys for each building to update or document key changes. We will survey for consumer products with known PCE content. The U.S. Department of Health and Human Services Household Products Database identifies 30 products that contain PCE – plus the "vapor intrusion community" is aware of other products that have been identified as containing PCE from vapor intrusion assessments across the country. Any identified background sources will be removed, and sampling will be re-scheduled to allow for at least 24 hours of ventilation in the building.

We will collect a duplicate sample from the North Duplex, the building with the historically highest indoor air concentrations. AES will subcontract with ALS of Simi Valley, California, for analysis of samples. The analytical suite will be limited to a short-list of chlorinated ethenes, consistent with previous ADEC-led vapor intrusion investigations at the site and confirmed by soil and groundwater results that do not show other volatile compounds above cleanup or target levels within 100 feet of the buildings. The analytical reporting limits will be less than the ADEC target indoor air levels for a residential exposure scenario.

Reporting

AES will prepare a draft Installation Report / Project Summary that encompasses all elements of the scope of work. The report will include:

- Introduction and background with details for project objectives, scope of work, and regulatory framework;
- Description of field activities, including management of waste and any deviations from the work plan;

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- Description of mitigation systems with drawings showing configuration of the systems;
- Presentation of radon data as a line of evidence to confirm system operation;
- Presentation of air results and findings in narrative, tables, and figures, including comparison of indoor air data to residential target indoor air levels;
- Written quality assurance review of field and analytical protocols and ADEC Laboratory Data Review Checklists (AES assumes that a data review that meets the requirements of an ADEC Level II review is sufficient for this effort);
- Conclusions and proposed recommendations;
- Appendices, including analytical data reports and chains-of-custodies, field notes, imagery; and
- The draft MM&R plan will be updated and finalized based on the as-built system parameters.

We will submit a draft report to EQM in digital format for review. Following receipt of comments from USEPA, AES will finalize the draft and submit hardcopies and electronic copy on clearly labeled CDs as requested.

We propose to finalize the report and MMR plan by July 11, 2014, one full week ahead of the proposed schedule in the RFP, thereby accelerating the emergency aspect of this project.

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4.0 Project Schedule

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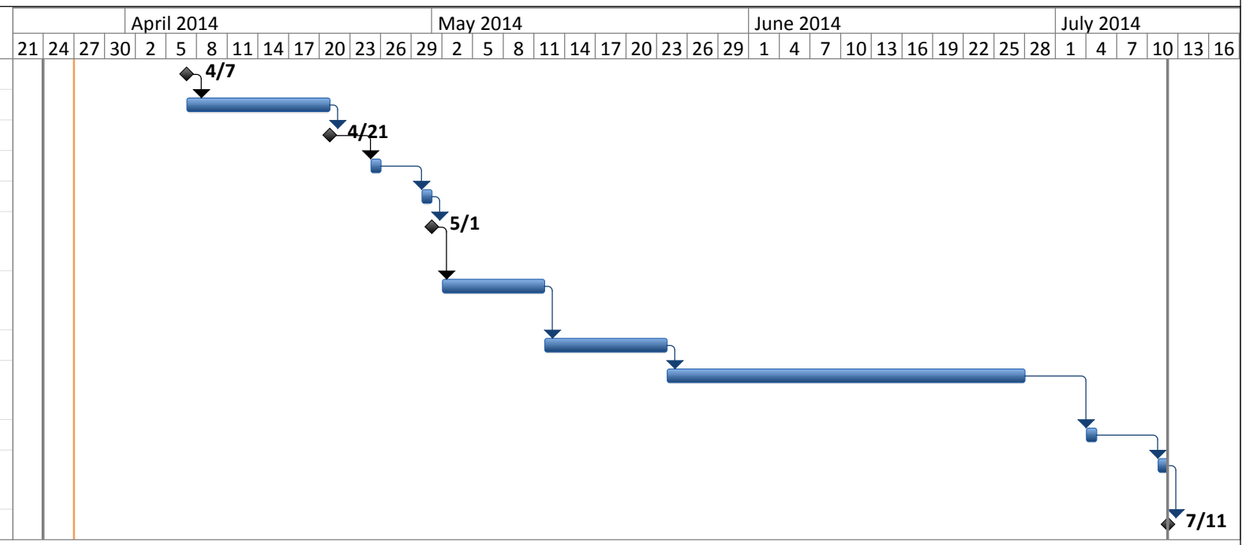
Vapor Intrusion Mitigation Services RFP
4th and Gambell Site
Anchorage, AK

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		Notice of Award	0 days	Mon 4/7/14	Mon 4/7/14		
2		Prepare Draft Work Plan	11 days	Mon 4/7/14	Sun 4/20/14	1	
3		Submit Draft Work Plan	0 days	Mon 4/21/14	Mon 4/21/14	2	
4		Receive Comments	1 day	Fri 4/25/14	Fri 4/25/14	3	
5		Submit Final Work Plan	1 day	Wed 4/30/14	Wed 4/30/14	4	
6		Notice to Begin Site Work	0 days	Thu 5/1/14	Thu 5/1/14	5	
7		Procurement of Supplies & Subcontractors	6 days	Fri 5/2/14	Sun 5/11/14	6	
8		Site Work	10 days	Mon 5/12/14	Fri 5/23/14	7	
9		Submit Draft Installation & Summary Report	26 days	Sat 5/24/14	Fri 6/27/14	8	
10		Receive Comments	1 day	Fri 7/4/14	Fri 7/4/14	9	
11		Submit Final Installation Summary Report	1 day	Fri 7/11/14	Fri 7/11/14	10	
12		Project Completion	0 days	Fri 7/11/14	Fri 7/11/14	11	



Project: Vapor Instrustion Mitigat
Scheduler: A. Stevens
Date: 3/27/2014

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline
Split	External Tasks	Inactive Summary	Manual Summary	Progress
Milestone	External Milestone	Manual Task	Start-only	
Summary	Inactive Task	Duration-only	Finish-only	

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5.0 Related Company Experience

To provide the greatest value to this project, AES will use a team of vapor intrusion professionals with nearly a decade of experience working together on vapor intrusion assessments and mitigation efforts in Alaska. We are ideally qualified to perform the requested scope of work and meet the objective of mitigating entry of PCE and other chlorinated VOC vapors into the buildings. A few highlights of the relevant experience for our team members include:

- Conducting in 2002 the first vapor intrusion assessment led by the Alaska Department of Environmental Conservation (ADEC).
- Providing technical review to ADEC in the development of the agency's 2009 Draft Vapor Intrusion Guidance.
- Designing and installing in 2009 the first PCE vapor intrusion mitigation system in Alaska.
- Designing and installing in 2010 a combined sub-slab/sub-membrane depressurization (SSD/SMD) system in Aniak, Alaska.
- Designing in 2011 a combined SSD/SMD system in Fairbanks, Alaska.
- Determining for the ADEC that mitigation was not needed in a residence potentially affected by an adjacent fuel spill because the source of elevated indoor air concentrations was a leaking fuel line to the furnace and not vapor intrusion.

Our team includes our Anchorage-based AES staff, staff from our joint venture partner, Geosyntec Consultants, and staff from one of our reliable teaming partners, Rescon Alaska. The key team members are:

Project Manager, Olga Stewart, PE: Ms. Stewart of AES is a State of Alaska Environmental PE. She has 7 years of experience as project manager, technical lead, and field team lead for over 30 projects. She is skilled in preparing work plans, quality assurance plans, and assessment reports under the rules of 18 AAC 75. Ms. Stewart also is the project manager for the current work order that AES has with ADEC for the 4th and Gambell project. Under this work order, Ms. Stewart is leading the preparation of a feasibility study for the groundwater plume of PCE associated with the 4th and Gambell site. This essential step will lead to identification and implementation of the remedial technology that will eventually control the reason mitigation is required for these four buildings. Ms. Stewart's role as project manager for the ADEC work order will greatly benefit this project as understanding and communication between ADEC and USEPA will be increased by Ms. Stewart's participation.

As project manager, Ms. Stewart will lead the project team to ensure project scope is executed and budget is maintained. She will work closely with the project engineer and technical officer to review the work plan, quality assurance plan, health and safety plan, engineering designs, and oversee construction activities, and produce accurate, detailed reports. Equally important for EQM and USEPA, Ms. Stewart will ensure that the team strictly adheres to the project schedule. She will interface regularly with the EQM project manager, Mr. Bryan Chernick, with established, regular meetings and daily reports during field activities to meet all milestones for this project.

Project Engineer, Nate Oberlee: Mr. Oberlee, an environmental engineer with our teaming partner Rescon Alaska, has over 13 years of experience in remediation design and installation in Alaska. Additionally, Mr. Oberlee has significant electrical, plumbing and carpentry experience as part of general contracting. This combination of engineering

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and construction experience gives Nate a deep understanding of real project costs, timeframes, and the design/installation constraints for a remediation project. Mr. Oberlee's mitigation experience for vapor intrusion includes:

- Lead engineer in 2009 for the design, construction, and installation of the first vapor intrusion SSD/SVE system for chlorinated solvents in Alaska at the Gaffney Road West site in Fairbanks.
- Lead engineer in 2010 for the design, construction, and installation of a SSD/SMD/SVE system for chlorinated solvents at the Aniak Middle School site in Aniak, Alaska.
- Lead engineer in 2011 for the design and construction of a SSD/SVE system at the 314 Wendell Avenue site in Fairbanks, Alaska.

The purpose of these systems was to provide engineering control to mitigate the intrusion of PCE and its degradation products to indoor air, which is the same scope for this project. All three systems effectively controlled vapor intrusion and achieved the mitigation objective of reducing indoor air concentrations of contaminants below ADEC target levels. Mr. Oberlee also has site-specific experience with the North Duplex building, the building that has the highest concentrations of PCE. In 2009, ADEC requested that Mr. Oberlee inspect and evaluate the SMD system that was installed by the owner of the duplex.

For this project, Mr. Oberlee will lead design, construction, testing and reporting activities for the mitigation systems at all four buildings. Mr. Oberlee will be the project lead on-site for ALL phases of construction. Due to the fast-track schedule for this project, this continuity between design and construction will ensure that all work is performed to the specifications and quality standards outlined in the design plan.

Technical Officer, Ben Martich, QEP: Mr. Martich of our joint venture partner Geosyntec Consultants will serve as technical officer for this project. No one else in Alaska can match Mr. Martich's site-specific and vapor intrusion experience in Alaska. He was ADEC's term contractor project manager for the 4th and Gambell site from 2008 to 2010. He personally performed the indoor air sampling at the four buildings in March 2009, June 2009, February 2010, and May 2010, and has been in the basement or crawlspace of all four buildings on multiple occasions.

Mr. Martich has specialized in the evaluation and control of the vapor intrusion pathway since 2002. Much of his work and evaluation of the pathway with ADEC up to 2009 was directly incorporated into ADEC's 2009 Draft Vapor Intrusion Guidance. In addition, Mr. Martich spent 2010-2013 providing technical leadership as a consultant to the Montana Department of Environmental Quality (MDEQ) in developing guidance and program execution for vapor intrusion investigations and vapor control strategies. Ben is a small group leader for ITRC's national Petroleum Vapor Intrusion Team, which has a vapor intrusion guidance document scheduled for publication in October 2014.

Mr. Martich's specific experience with mitigation of the vapor intrusion pathway includes managing the design and installation of the first SSD system installed in Alaska at the Gaffney West site in Fairbanks. For MDEQ, Mr. Martich provided technical oversight for the pilot testing and design of a SSD system for an industrial building in Havre, Montana, and Mr. Martich provided an optimization review for an operating SSD system at a residence in Sunburst, Montana. Finally, Mr. Martich is able to collaborate with his co-workers at Geosyntec Consultants, nationally recognized leaders in vapor

intrusion, such as Robbie Ettinger, Todd McAlary, Dr. Helen Dawson, and David Folkes, to bring the leading design considerations and practices to mitigation ADEC projects.

We offer the following projects as notable examples of our relevant experience with mitigation of the vapor intrusion pathway:

Project: Gaffney Road West
Client: ADEC
Dates of Services: Sept 2013 – Current
Contract Value: $110,000
Contact: Ms. Tamara Cardona, 907-451-2192, tamara.cardona@alaska.gov

AES serves as the current term contractor for an SSD system mitigating the intrusion of PCE into a commercial building in Fairbanks. This system was designed and installed by Nate Oberlee, our Project Engineer above. Currently, we conduct monthly MM&R to ensure the system is performing to design parameters to meet mitigation objectives. Other periodic checks include vacuum measurements at sub-slab monitoring points to ensure an adequate and continuous depressurization field, and annual indoor air sampling to confirm concentrations remain below target levels.

Project: USCG Kodiak Building Mitigation
Client: United States Coast Guard
Dates of Services: October 2013 – Current
Contract Value: $83,000
Contact: Mr. Tim Stott, 206-220-7360, timothy.w.stott@uscg.mil

AES provides the USCG with mitigation monitoring and operations and maintenance (O&M) for three buildings that overly a chlorinated ethene groundwater plume at the USCG facility in Kodiak. The buildings have crawlspaces with SMD systems and enhanced crawl space ventilation. Our O&M tasks include periodic inspection and repair of the vapor barrier membranes; measuring supply and return air flow rates to ensure systems are operating according to design specifications; and measuring differential pressures between the crawlspaces and indoors. The monitoring requirements are quarterly indoor air sampling events for one year to confirm the effectiveness of the systems, and then followed by annual events thereafter.

Project: Stacia Street Mitigation
Client: ADEC
Dates of Services: May 2013 – June 2013
Contract Value: $10,000
Contact: Mr. Will Boger, 907-451-2370, willett.boger@alaska.gov

ADEC contracted AES to conduct a feasibility study to evaluate mitigation alternatives and implement the preferred remedy for a residence in Fairbanks that had a fuel spill adjacent to the building. During an inspection of the residence, however, an AES engineer noted that the fuel line from the heating oil tank to the furnace was slowly leaking fuel. Instead of proceeding with a feasibility study and installation of a mitigation system, AES recommended repair of the fuel line and re-testing of indoor air. This keen observation by our field engineer along with expert data interpretation by our joint venture partner, Ben Martich, saved ADEC significant money as the leaking fuel line and not the nearby spill turned out to be the cause of the originally reported elevated concentrations in indoor air.

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6.0 AK State Contractors/Business License

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Alaska Business License # **309026**

Alaska Department of Commerce, Community, and Economic Development

Division of Corporations, Business and Professional Licensing
P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

AHTNA ENGINEERING SERVICES LLC

110 W 38TH AVE SUITE 200A ANCHORAGE AK 99503

owned by

AHTNA ENGINEERING SERVICES LLC

is licensed by the department to conduct business for the period

December 18, 2013 through December 31, 2014
for the following line of business:

54 - Professional, Scientific and Technical Services

This license shall not be taken as permission to do business in the state without having complied with the other requirements of the laws of the State or of the United States.

This license must be posted in a conspicuous place at the business location.
It is not transferable or assignable.

Susan K. Bell
Commissioner

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No. 30807

Effective: 01/29/2013

Expires: 12/31/2014

STATE OF ALASKA

DEPARTMENT OF COMMERCE, COMMUNITY & ECONOMIC DEVELOPMENT

Division of Corporations, Business and Professional Licensing
P.O. Box 110806, Juneau, Alaska 99811-0806

Certifies that

AHTNA ENGINEERING SERVICES LLC

Is A Registered

General Contractor without Residential Contractor Endorsement

Administrator: H. SHOEMAKER EAD 1478

Commissioner: Susan K. Bell

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7.0 Required and Appropriate Certifications

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No. (b) (6)
Effective: 06/25/2013
Expires: 12/31/2013

STATE OF ALASKA

DEPARTMENT OF COMMERCE, COMMUNITY, & ECONOMIC DEVELOPMENT
Division of Corporations, Business and Professional Licensing

BOARD OF ARCHITECTS, ENGINEERS, AND LAND SURVEYORS

Certifies that

OLGA (b) (6) STEWART

IS A REGISTERED

PROFESSIONAL ENVIRONMENTAL ENGINEER

Commissioner: Susan K. Bell

Wallet Card

No. (b)

State Of Alaska
Department of Commerce, Community, and Economic Development
Division Of Corporations, Business and Professional Licensing
This Certifies that
OLGA (b) (6) STEWART
IS A REGISTERED
PROFESSIONAL ENVIRONMENTAL ENGINEER

Effective	Expiration	Date of Birth
06/25/2013	12/31/2013	(b) (6)

Signature _____

You must notify the division in writing of any change in your mailing address. (12 AAC 02.900)

If you wish to have a verification of your registration sent to another state, submit your request in writing along with a fee of $20.00 payable to the State of Alaska.

Pursuant to 12 AAC 36.185(d) "the registrant shall include the date each time the registrant signs and seals a document by inserting the date within the seal or in a close proximity to the seal." The board has defined "close proximity" in policy as within two inches of the seal.

AEL

ANCHORAGE AK 99508
(b) (6)
OLGA MERRELL STEWART

Certificate of Training

This is to certify that

OLGA M. STEWART

Has Attended and Successfully Completed

HAZWOPER Refresher 8 Hour Course

In Compliance with OSHA 29 CFR 1910.120 Standard and EPA 40 CFR.

Certificate Number: (b) (6)

Course Date: March 06, 2014
Exam Date: March 06, 2014
Expiration Date: March 06, 2015

Alan Caldwell
Training Division Manager

Satori Group, Inc.
1310 E 66th Ave, Suite 2
Anchorage, AK 99518

Certificate of Completion

This certifies that

Nathan Oberlee

Has Successfully completed

8 Hour HAZWOPER Supervisor Refresher Training

This certification alone does NOT indicate INITIAL 8 Hour OSHA Supervisor Training

In Accordance With Federal OSHA Regulation 29 CFR 1910.120

And all State OSHA/EPA Regulations as well

This course is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) issued by Safety Unlimited, Inc. (Accreditation # 044)

Julius P. Griggs
Julius P. Griggs
Instructor #892

(b) (6)
Certificate Number

2/24/2014
Issue Date

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OSHA Compliant Safety Training Since 1993

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888 309-SAFE (7233) or 805 306-8027 866-869-7097 (fax)
www.safetyunlimited.com

Proof of initial certification and subsequent refresher training is NOT required to take refresher training
Want to be sure this certificate is valid? Visit safetyunlimited.com/verification

ecology and environment, inc.

Acknowledges that

Ben Martich

has successfully completed the

40-HOUR BASIC HEALTH AND SAFETY TRAINING COURSE FOR HAZARDOUS WASTE OPERATIONS

presented in Dallas, Texas

Paul W Jonmaire

PAUL W. JONMAIRE, PH.D.
DIRECTOR, HEALTH AND SAFETY

Thomas Siener

TOM SIENER
TRAINING MANAGER

September 27, 1996

DATE

This course meets the requirements of OSHA29CFR1910.120(e) and
has been approved by the United States Environmental Protection Agency

Certificate of Completion

This certifies that

Zack Kirk

Has Successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance W/Federal OSHA Regulation 29 CFR 1910.120(e), (p) & (q)

And all State OSHA and EPA Regulations As Well

This course is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) issued by Safety Unlimited, Inc. (Accreditation # 044)

Julius P. Griggs
Julius P. Griggs
Instructor #892

(b) (6)
Certificate Number

1/16/2014
Issue Date

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www.safetyunlimited.com

Proof of initial certification and subsequent refresher training is NOT required to take refresher training
Want to be sure this certificate is valid? Visit safetyunlimited.com/verification

Certificate of Training

This is to certify that

ZACHARY A. RASMUSSEN

Has Attended and Successfully Completed

HAZWOPER Refresher 8 Hour Course

In Compliance with OSHA 29 CFR 1910.120 Standard and EPA 40 CFR.

Certificate Number: (b) (6)

Course Date: March 06, 2014
Exam Date: March 06, 2014
Expiration Date: March 06, 2015

Alan Caldwell
Training Division Manager

Satori Group, Inc.
1310 E 66th Ave, Suite 2
Anchorage, AK 99518

Certificate of Completion

This certifies that

Samantha Fox

Has Successfully completed

OSHA 40 Hour HAZWOPER Training

In Accordance With Federal OSHA Regulation 29 CFR 1910.120(e)

And State OSHA/EPA Regulations as well including 29 CFR 1926.65(e)

This course is approved for 40 Contact Hours (4 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) issued by Safety Unlimited, Inc. (Accreditation # 044)

Julius P. Griggs
Julius P. Griggs
Instructor #892

(b) (6)
Certificate Number

2/17/2013
Issue Date

SAFETY UNLIMITED, Inc.
OSHA Compliant Safety Training Since 1993

2139 Tapo St., Suite 228 Simi Valley, CA 93063
888 309-SAFE (7233) or 805 306-8027 866-869-7097 (fax)
www.safetyunlimited.com

Annual Refresher Training Required
Want to be sure this certificate is valid? Visit safetyunlimited.com/verification

Land Science™ Technologies
1011 Calle Sombra - Ste. 110, San Clemente, CA 92673 P.949.366.8000 F.949.366.8090 www.landsciencetech.com

March 26, 2014

Nathan Oberlee
Rescon Alaska, LLC
1120 Huffman Rd Ste 24-431
Anchorage, AK 99515

Re: Applicator Certification

Dear Nathan,

This letter is to inform you that Petrochem Insulation is certified by Land Science Technologies for the installation of the Retro-Coat™ system.

Sincerely,

Kelly Ameli
National Sales Manager
Land Science Technologies
kameli@landsciencetech.com
949.892.0542

THE STATE OF ALASKA
Department of Environmental Conservation
Laboratory Approval Program

Scope of Approval

Expiration: 06/12/2014

ALS Environmental-Kelso, WA UST-040
1317 S 13th Avenue
Kelso, WA 98626

is approved by the State of Alaska Department of Environmental Conservation , pursuant to 18 AAC 78, to perform analysis for the parameters listed below using the analytical methods indicated. Approval for all parameters is final. Approval is for the latest version of a method unless specified otherwise in a note. EPA refers to the U.S. Environmental Protection Agency. AK refers to Alaska Methods 101, 102 and 103 for the determination of gasoline, diesel and residual range organics in soil and water. ASTM refers to the American Society for Testing and Materials.

Contaminated Sites

Method/Test Name	Reference	Analyte	Matrix	Status
6010C	EPA	Total Arsenic	Soil	Approved
6010C	EPA	Total Barium	Soil	Approved
6010C	EPA	Total Cadmium	Soil	Approved
6010C	EPA	Total Chromium	Soil	Approved
6010C	EPA	Total Lead	Soil	Approved
6010C	EPA	Total Nickel	Soil	Approved
6010C	EPA	Total Vanadium	Soil	Approved
6010C	EPA	Total Arsenic	Water	Approved
6010C	EPA	Total Barium	Water	Approved
6010C	EPA	Total Cadmium	Water	Approved
6010C	EPA	Total Chromium	Water	Approved
6010C	EPA	Total Lead	Water	Approved
6010C	EPA	Total Nickel	Water	Approved
6010C	EPA	Total Vanadium	Water	Approved
6020A	EPA	Total Arsenic	Soil	Approved
6020A	EPA	Total Barium	Soil	Approved
6020A	EPA	Total Cadmium	Soil	Approved
6020A	EPA	Total Chromium	Soil	Approved
6020A	EPA	Total Lead	Soil	Approved

Contaminated Sites

Method/Test Name	Reference	Analyte	Matrix	Status
6020A	EPA	Total Nickel	Soil	Approved
6020A	EPA	Total Vanadium	Soil	Approved
6020A	EPA	Total Arsenic	Water	Approved
6020A	EPA	Total Barium	Water	Approved
6020A	EPA	Total Cadmium	Water	Approved
6020A	EPA	Total Chromium	Water	Approved
6020A	EPA	Total Lead	Water	Approved
6020A	EPA	Total Nickel	Water	Approved
6020A	EPA	Total Vanadium	Water	Approved
7060A	EPA	Total Arsenic	Water	Approved
8021B	EPA	BTEX	Water	Approved
8082A	EPA	Polychlorinated Biphenyls-PCB	Soil	Approved
8082A	EPA	Polychlorinated Biphenyls-PCB	Water	Approved
8260C	EPA	BTEX	Soil	Approved
8260C	EPA	Total Volatile Chlorinated Solvents	Soil	Approved
8260C	EPA	BTEX	Water	Approved
8260C	EPA	Total Volatile Chlorinated Solvents	Water	Approved
8270D	EPA	PAH	Soil	Approved
8270D	EPA	PAH	Water	Approved
AK101	AK	Gasoline Range Organics	Soil	Approved
AK101	AK	Gasoline Range Organics	Water	Approved
AK101/8021B	EPA	BTEX-methanol preserved	Soil	Approved
AK102	AK	Diesel Range Organics	Soil	Approved
AK102	AK	Diesel Range Organics	Water	Approved
AK103	AK	Residual Range Organics	Soil	Approved

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2005 "General Requirements for the competence of Testing and Calibration Laboratories" and the DoD Quality Systems Manual for Environmental Laboratories Version 4.2 4/22/2009 and is accredited is accordance with the:

United States Department of Defense
Environmental Laboratory Accreditation Program
(DoD-ELAP)

This accreditation demonstrates technical competence for the defined scope:

Environmental Testing

(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Initial Accreditation Date:	*Issue Date:*	*Accreditation No.:*	*Certificate No.:*
July 19, 2011	March 1, 2012	65188	L12-28

Tracy Szerszen
President/Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous	EPA 1631E	CVAFS	Mercury (Low level)
Aqueous	EPA 1664A	Gravimetry	Hexane Extractable Material (HEM)
Aqueous	EPA 1664A	Gravimetry	Total Petroleum Hydrocarbons (TPH)
Aqueous	EPA 180.1	Nephelometer	Turbidity
Aqueous	EPA 2340B	Calculation by 6010	Hardness as $CaCO_3$)
Aqueous	EPA 245.1	CVAA	Mercury
Aqueous	EPA 300.0	IC	Bromide
Aqueous	EPA 300.0	IC	Chloride
Aqueous	EPA 300.0	IC	Fluoride
Aqueous	EPA 300.0	IC	Nitrate + Nitrite as N
Aqueous	EPA 300.0	IC	Nitrate as N
Aqueous	EPA 300.0	IC	Nitrite as N
Aqueous	EPA 300.0	IC	Sulfate
Aqueous	EPA 353.2	Automated Colorimetry	Nitrate + Nitrite as N
Aqueous	EPA 7196A	Colorimetry	Chromium VI
Aqueous	EPA 7470A	CVAA	Mercury
Aqueous	EPA 8260C SIM	GC-MS	1,1,2,2-Tetrachloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,1,2-Trichloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,1-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	1,2-Dibromoethane (EDB)
Aqueous	EPA 8260C SIM	GC-MS	1,2-Dichloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,3 Butadine
Aqueous	EPA 8260C SIM	GC-MS	1,4-Dichlorobenzene
Aqueous	EPA 8260C SIM	GC-MS	Bromodichloromethane
Aqueous	EPA 8260C SIM	GC-MS	Carbon Tetrachloride
Aqueous	EPA 8260C SIM	GC-MS	Chlorodibromomethane
Aqueous	EPA 8260C SIM	GC-MS	Chloroform
Aqueous	EPA 8260C SIM	GC-MS	Chloromethane
Aqueous	EPA 8260C SIM	GC-MS	cis-1,2-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Dichloromethane (Methylene Chloride)
Aqueous	EPA 8260C SIM	GC-MS	Tetrachloroethene
Aqueous	EPA 8260C SIM	GC-MS	trans-1,2-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Trichloroethene

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1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous	EPA 8260C SIM	GC-MS	Vinyl chloride
Aqueous	EPA 9020B	Microcoulometric-titration detector	Total Organic Halides (TOX)
Aqueous	EPA 9040C	pH Meter	pH
Aqueous	EPA 9060A	TOC Meter	Total Organic Carbons (TOC)
Aqueous	SM 2130B	Nephelometer	Turbidity
Aqueous	SM 4500 CN- G	Colorimetry	Cyanide, Amenable
Aqueous	SM 4500 P-E	Colorimetry	ortho-phosphorous
Aqueous	SM 4500 S2 D	Distillation Unit	Sulfide
Aqueous	SM2320B	Titrimetry	Total Alkalinity (as $CaCO_3$)
Aqueous	SM2510B	Conductivity Meter	Specific Conductance
Aqueous	SM2540B	Balance	Solids, Total
Aqueous	SM2540C	Balance	Solids, Total Dissolved
Aqueous	SM2540D	Balance	Solids, Total Suspended
Aqueous	SM4500CN E	Colorimetry	Total Cyanide
Aqueous	SM4500CN-G	Colorimetry	Cyanide, Amenable
Aqueous	SM4500NH3 G	Colorimetry	Ammonia
Aqueous	SM5220C	Titrimetry	Chemical Oxygen Demand (COD)
Aqueous	SM5310C	TOC Meter	Total Organic Carbons (TOC)
Aqueous	SOP-LCP-PFC	HPLC/MS/MS	Perfluor-n butanoic acid (PFBA)
Aqueous	SOP-LCP-PFC	HPLC/MS/MS	Perfluor-n octanesulfonate (PFOS)
Aqueous	SOP-LCP-PFC	HPLC/MS/MS	Perfluor-n octanoic acid (PFOA)
Aqueous/Drinking Water	EPA 200.9	GFAA	Antimony
Aqueous/Drinking Water	EPA 200.9	GFAA	Selenium
Aqueous/Drinking Water	EPA 200.9	GFAA	Thallium
Aqueous/Drinking Water	EPA 200.9	GFAA	Arsenic
Aqueous/Drinking Water	EPA 200.9	GFAA	Lead
Aqueous/Solid	ASTM D 1426-93B	ISE	Nitrogen, Total Kjeldahl (TKN)
Aqueous/Solid	EPA 1630	CVAFS	Methyl Mercury
Aqueous/Solid	EPA 1020A	Closed Cup Flashpoint	Ignitability
Aqueous/Solid	EPA 314.0	IC	Perchlorate
Aqueous/Solid	EPA 350.1	Colorimetry	Ammonia
Aqueous/Solid	EPA 365.3	Colorimetry	Total Phosphorus
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Aluminum

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1317 South 13th Avenue, Kelso, WA 98626
Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Antimony
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Arsenic
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Barium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Beryllium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Boron
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Cadmium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Calcium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Chromium, total
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Cobalt
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Copper
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Iron
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Lead
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Magnesium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Manganese
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Molybdenum
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Nickel
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Potassium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Selenium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Silver
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Sodium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Strontium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Thallium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Tin
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Titanium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Vanadium
Aqueous/Solid	EPA 6010B, C/200.7	ICP	Zinc
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Aluminum
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Antimony
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Arsenic
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Barium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Beryllium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Boron
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Cadmium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Chromium, total

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Cobalt
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Copper
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Iron
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Lead
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Manganese
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Molybdenum
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Nickel
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Selenium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Silver
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Strontium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Thallium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Tin
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Titanium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Vanadium
Aqueous/Solid	EPA 6020, A/200.8	ICP-MS	Zinc
Aqueous/Solid	EPA 7010	GFAA	Antimony
Aqueous/Solid	EPA 7010	GFAA	Arsenic
Aqueous/Solid	EPA 7010	GFAA	Chromium, total
Aqueous/Solid	EPA 7010	GFAA	Lead
Aqueous/Solid	EPA 7010	GFAA	Selenium
Aqueous/Solid	EPA 7010	GFAA	Thallium
Aqueous/Solid	EPA 7742	AA, Borohydride Reduction; GFAA	Selenium
Aqueous/Solid	EPA 8015C/AK103-RRO	GC-FID	Residual Range Organics (RRO)
Aqueous/Solid	EPA 8015C; AK101-GRO; NWTPH-Gx	GC-FID	Gasoline Range Organics (GRO)
Aqueous/Solid	EPA 8015C; AK102-DRO; NWTPH-Dx	GC-FID	Diesel Range Organics (DRO)
Aqueous/Solid	EPA 8021B	GC-FID	Benzene
Aqueous/Solid	EPA 8021B	GC-FID	Ethyl Benzene
Aqueous/Solid	EPA 8021B	GC-FID	Toluene
Aqueous/Solid	EPA 8021B	GC-FID	Xylene, total
Aqueous/Solid	EPA 8081A, B	GC-ECD	Aldrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Alpha-BHC

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Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626
Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDD (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDE (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDT (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	delta-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	Dieldrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan I
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan II
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan sulfate
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin aldehyde
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin ketone
Aqueous/Solid	EPA 8081A, B	GC-ECD	gamma-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	gamma-Chlordane
Aqueous/Solid	EPA 8081A, B	GC-ECD	Heptachlor
Aqueous/Solid	EPA 8081A, B	GC-ECD	Heptachlor Epoxide (beta)
Aqueous/Solid	EPA 8081A, B	GC-ECD	Methoxychlor
Aqueous/Solid	EPA 8081A, B	GC-ECD	Toxaphene (total)
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDD
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDE
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDT
Aqueous/Solid	EPA 8081B	GC-ECD	Chlorpyrifos
Aqueous/Solid	EPA 8081B	GC-ECD	cis-Nonachlor
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachlorobenzene
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachlorobutadiene
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachloroethane
Aqueous/Solid	EPA 8081B	GC-ECD	Isodrin
Aqueous/Solid	EPA 8081B	GC-ECD	Mirex
Aqueous/Solid	EPA 8081B	GC-ECD	Oxychlordane
Aqueous/Solid	EPA 8081B	GC-ECD	trans-Nonachlor
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4,5,5,6-Nonachlorobiphenyl (PCB 206)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4,5,6-Octachlorobiphenyl (PCB 195)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4,5-Heptachlorobiphenyl (PCB 170)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4-Hexachlorobiphenyl (PCB 128)

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,5,5-Heptachlorobiphenyl (PCB180)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,5,6-Heptachlorobiphenyl (PCB 183)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,5-Hexachlorobiphenyl (PCB 138)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,6,6-Heptachlorobiphenyl (PCB 184)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,5,5,6-Heptachlorobiphenyl (PCB 187)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,5-Pentachlorobiphenyl (PCB87)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,5-Pentachlorobiphenyl (PCB90)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,5-Tetrachlorobiphenyl (PCB44)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,4,4,5,5-Hexachlorobiphenyl (PCB153)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,4,5,5-Pentachlorobiphenyl (PCB 101)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,5,5-Tetrachlorbiphenyl (PCB 53)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,5-Trichlorobiphenyl (PCB18)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,5,5-Heptachlorobiphenyl (PCB 189)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,5-Hexachlorobiphenyl (PCB 156)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,5-Hexachlorobiphenyl (PCB 157)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,6-Hexachlorobiphenyl (PCB 158)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4-Pentachlorobiphenyl (PCB 105)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5,5 Hexachlorobiphenyl (PCB 167)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5,6-Hexachlorobiphenyl (PCB 168)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5-Pentachlorobiphenyl (PCB 114)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5-Pentachlorobiphenyl (PCB 118)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5-Pentachlorobiphenyl (PCB 123)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4-Tetrachlorobiphenyl (PCB60)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4-Tetrachlorobiphenyl (PCB66)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,4,4-Trichlorobiphenyl (PCB 28)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,4-Dichlorobiphenyl (PCB8)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,3,4,4,5,5-Hexachlorobiphenyl (PCB 169)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,3,4,4,5-Pentachlorobiphenyl (PCB 126)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,3,4,4-Tetrachlorobiphenyl (PCB 77)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,4,4,5-Tetrachlorobiphenyl (PCB 81)
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1016
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1221
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1232

Certificate of Accreditation: Supplement

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Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1242
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1248
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1254
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1260
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1262
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1268
Aqueous/Solid	EPA 8082, A	GC-ECD	Decachlorobiphenyl (PC B209)
Aqueous/Solid	EPA 8151A	GC-ECD	2,4,5-T
Aqueous/Solid	EPA 8151A	GC-ECD	2,4,5-TP (Silvex)
Aqueous/Solid	EPA 8151A	GC-ECD	2,4-D
Aqueous/Solid	EPA 8151A	GC-ECD	2,4-DB
Aqueous/Solid	EPA 8151A	GC-ECD	Dalapon
Aqueous/Solid	EPA 8151A	GC-ECD	Dicamba
Aqueous/Solid	EPA 8151A	GC-ECD	Dichloroprop
Aqueous/Solid	EPA 8151A	GC-ECD	Dinoseb
Aqueous/Solid	EPA 8151A	GC-ECD	MCPA
Aqueous/Solid	EPA 8151A	GC-ECD	MCPP
Aqueous/Solid	EPA 8260B, C	GC-MS	1-phenylpropane
Aqueous/Solid	EPA 8260B, C	GC-MS	Benzene
Aqueous/Solid	EPA 8260B, C	GC-MS	DIPE
Aqueous/Solid	EPA 8260B, C	GC-MS	ETBE
Aqueous/Solid	EPA 8260B, C	GC-MS	Ethyl Benzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Freon 11
Aqueous/Solid	EPA 8260B, C	GC-MS	Freon 113
Aqueous/Solid	EPA 8260B, C	GC-MS	MTBE
Aqueous/Solid	EPA 8260B, C	GC-MS	TAME
Aqueous/Solid	EPA 8260B, C	GC-MS	tert-Butyl alcohol
Aqueous/Solid	EPA 8260B, C	GC-MS	Toluene
Aqueous/Solid	EPA 8260B, C	GC-MS	Xylene, total
Aqueous/Solid	EPA 8260B, C	GC-MS	1,1,1,2-Tetrachloroethane
Aqueous/Solid	EPA 8260B, C	GC-MS	1,1,1-Trichloroethane
Aqueous/Solid	EPA 8260B, C	GC-MS	1,1,2,2-Tetrachloroethane
Aqueous/Solid	EPA 8260B, C	GC-MS	1,1,2-Trichloroethane

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Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8260B, C	GC-MS	1,1-Dichloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1-Dichloroethene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1-Dichloropropene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,3-Trichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,3-Trichloropropane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,4-Trimethylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	1,2-Dibromoethane (EDB)
Aqueous/Solid	EPA 8260B, C	GC-MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	1,2-Dichloroethane
Aqueous/Solid	EPA 8260B, C	GC-MS	1,2-Dichloropropane
Aqueous/Solid	EPA 8260B, C	GC-MS	1,3,5-Trimethylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	1,3-Dichloropropane
Aqueous/Solid	EPA 8260B, C	GC-MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	2,2-Dichloropropane
Aqueous/Solid	EPA 8260B, C	GC-MS	2-Butanone (MEK)
Aqueous/Solid	EPA 8260B, C	GC-MS	2-Chloroethylvinlether
Aqueous/Solid	EPA 8260B, C	GC-MS	2-Chlorotoluene
Aqueous/Solid	EPA 8260B, C	GC-MS	2-Hexanone
Aqueous/Solid	EPA 8260B, C	GC-MS	4-Chlorotoluene
Aqueous/Solid	EPA 8260B, C	GC-MS	4-Isopropyltoluene
Aqueous/Solid	EPA 8260B, C	GC-MS	4-Methyl-2-pentanone (MIBK)
Aqueous/Solid	EPA 8260B, C	GC-MS	Acetone
Aqueous/Solid	EPA 8260B, C	GC-MS	Acetonitrile
Aqueous/Solid	EPA 8260B, C	GC-MS	Acrolein
Aqueous/Solid	EPA 8260B, C	GC-MS	Acrylonitrile
Aqueous/Solid	EPA 8260B, C	GC-MS	Benzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Bromobenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Bromochloromethane
Aqueous/Solid	EPA 8260B, C	GC-MS	Bromodichloromethane
Aqueous/Solid	EPA 8260B, C	GC-MS	Bromoform
Aqueous/Solid	EPA 8260B, C	GC-MS	Bromomethane

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8260B, C	GC-MS	Carbon disulfide
Aqueous/Solid	EPA 8260B, C	GC-MS	Carbon Tetrachloride
Aqueous/Solid	EPA 8260B, C	GC-MS	Chlorobenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Chlorodibromomethane
Aqueous/Solid	EPA 8260B, C	GC-MS	Chloroethane
Aqueous/Solid	EPA 8260B, C	GC-MS	Chloroform
Aqueous/Solid	EPA 8260B, C	GC-MS	Chloromethane
Aqueous/Solid	EPA 8260B, C	GC-MS	cis-1,2-Dichloroethene
Aqueous/Solid	EPA 8260B, C	GC-MS	cis-1,3-Dichloropropene
Aqueous/Solid	EPA 8260B, C	GC-MS	Dibromomethane
Aqueous/Solid	EPA 8260B, C	GC-MS	Dichlorodifluoromethane
Aqueous/Solid	EPA 8260B, C	GC-MS	Dichloromethane (Methylene Chloride)
Aqueous/Solid	EPA 8260B, C	GC-MS	Di-isopropylether (DIPE)
Aqueous/Solid	EPA 8260B, C	GC-MS	Ethylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8260B, C	GC-MS	Isopropylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Methyl-tert-butylether (MTBE)
Aqueous/Solid	EPA 8260B, C	GC-MS	Naphthalene
Aqueous/Solid	EPA 8260B, C	GC-MS	n-Butylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	n-Propylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	sec-Butylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Styrene
Aqueous/Solid	EPA 8260B, C	GC-MS	tert-amylmethylether (TAME)
Aqueous/Solid	EPA 8260B, C	GC-MS	tert-butylbenzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Tetrachloroethene
Aqueous/Solid	EPA 8260B, C	GC-MS	Toluene
Aqueous/Solid	EPA 8260B, C	GC-MS	trans-1,2-Dichloroethene
Aqueous/Solid	EPA 8260B, C	GC-MS	trans-1,3-Dichloropropene
Aqueous/Solid	EPA 8260B, C	GC-MS	Trichloroethene
Aqueous/Solid	EPA 8260B, C	GC-MS	Trichlorofluoromethane (Freon 11)
Aqueous/Solid	EPA 8260B, C	GC-MS	Vinyl acetate
Aqueous/Solid	EPA 8260B, C	GC-MS	Vinyl chloride
Aqueous/solid	EPA 8260B, C	GC-MS	Xylenes, total

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Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D	GC-MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4,5-Trichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4,6-Trichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dimethylphenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dinitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dinitrotoluene
Aqueous/Solid	EPA 8270C, D	GC-MS	2,6-Dichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,6-Dinitrotoluene
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Chloronaphthalene
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Chlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Methyl-4,6-Dinitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Methylphenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Nitroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Nitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	3,3-Dichlorobenzidine
Aqueous/Solid	EPA 8270C, D	GC-MS	3-Nitroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Bromophenyl-phenylether
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Chloro-3-methylphenol
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Chloroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Chlorophenyl-phenylether
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Methylphenol (and/or 3-Methylphenol)
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Nitroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Nitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	Acenaphthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Acenaphthylene
Aqueous/Solid	EPA 8270C, D	GC-MS	Aniline
Aqueous/Solid	EPA 8270C, D	GC-MS	Anthracene
Aqueous/Solid	EPA 8270C, D	GC-MS	Azinphos-methyl (Guthion)

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzidine
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(a)anthracene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(a)pyrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(b)fluoranthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(g,h,i)perylene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(k)fluoranthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzoic acid
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzyl alcohol
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-Chloroethoxy)methane
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-Chloroethyl)ether
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-Chloroisopropyl)ether
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-ethylhexy)phthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Butyl benzyl phthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Carbazole
Aqueous/Solid	EPA 8270C, D	GC-MS	Chlorpyrifos
Aqueous/Solid	EPA 8270C, D	GC-MS	Chrysene
Aqueous/Solid	EPA 8270C, D	GC-MS	Demeton O & S
Aqueous/Solid	EPA 8270C, D	GC-MS	Diazinon
Aqueous/Solid	EPA 8270C, D	GC-MS	Dibenzo(a,h)anthracene
Aqueous/Solid	EPA 8270C, D	GC-MS	Dibenzofuran
Aqueous/Solid	EPA 8270C, D	GC-MS	Dichlorvos
Aqueous/Solid	EPA 8270C, D	GC-MS	Diethyl phthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	dimethoate
Aqueous/Solid	EPA 8270C, D	GC-MS	Dimethylphthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	di-n-butylphthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Di-n-octylphthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Disulfoton
Aqueous/Solid	EPA 8270C, D	GC-MS	Ethoprop
Aqueous/Solid	EPA 8270C, D	GC-MS	Fluoranthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Fluorene
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachlorocyclopentadiene

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626
Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachloroethane
Aqueous/Solid	EPA 8270C, D	GC-MS	Indeno(1,2,3, cd)pyrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Isophorone
Aqueous/Solid	EPA 8270C, D	GC-MS	Naphthalene
Aqueous/Solid	EPA 8270C, D	GC-MS	Nitrobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	N-Nitrosodiethylamine
Aqueous/Solid	EPA 8270C, D	GC-MS	N-Nitrosodimethylamine
Aqueous/Solid	EPA 8270C, D	GC-MS	N-Nitroso-di-n-propylamine
Aqueous/Solid	EPA 8270C, ~~D~~	GC-MS	N-Nitrosodiphenylamine
Aqueous/Solid	EPA 8270C, D	GC-MS	o-Toluidine
Aqueous/Solid	EPA 8270C, D	GC-MS	Parathion, ethyl
Aqueous/Solid	EPA 8270C, D	GC-MS	Parathion, methyl
Aqueous/Solid	EPA 8270C, D	GC-MS	Pentachlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	Pentachlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	Phenanthrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Phenol
Aqueous/Solid	EPA 8270C, D	GC-MS	Phorate
Aqueous/Solid	EPA 8270C, D	GC-MS	Pyrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Pyridine
Aqueous/Solid	EPA 8270C, D	GC-MS	Ronnel
Aqueous/Solid	EPA 8270C, D	GC-MS	Stirophos
Aqueous/Solid	EPA 8270C, D	GC-MS	Sulfotepp
Aqueous/Solid	EPA 8270C, D	GC-MS	2,3,4,6-Tetrachlorophenol
Aqueous/Solid	EPA 8270C,D	GC-MS	1,2,4,5-Tetrachlorobenzene
Aqueous/Solid	EPA 8270SIM	GC-MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270SIM	GC-MS	Acenaphthene
Aqueous/Solid	EPA 8270SIM	GC-MS	Acenaphthylene
Aqueous/Solid	EPA 8270SIM	GC-MS	Anthracene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(a)anthracene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(a)pyrene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(b)fluoranthene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(g,h,i)perylene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(k)fluoranthene

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626
Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270SIM	GC-MS	Chrysene
Aqueous/Solid	EPA 8270SIM	GC-MS	Dibenzo(a,h)anthracene
Aqueous/Solid	EPA 8270SIM	GC-MS	Fluoranthene
Aqueous/Solid	EPA 8270SIM	GC-MS	Fluorene
Aqueous/Solid	EPA 8270SIM	GC-MS	Indeno(1,2,3, cd)pyrene
Aqueous/Solid	EPA 8270SIM	GC-MS	Naphthalene
Aqueous/Solid	EPA 8270SIM	GC-MS	p-Dioxane
Aqueous/Solid	EPA 8270SIM	GC-MS	Phenanthrene
Aqueous/Solid	EPA 8270SIM	GC-MS	Pyrene
Aqueous/Solid	EPA 8330B	HPLC	1,3,5-Trinitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	1,3-Dinitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	2,4,6-Trinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	2,4-Dinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	2,6-Dinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	2-Amino-4,6-dinitrtoluene
Aqueous/Solid	EPA 8330B	HPLC	2-Nitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	3,5-Dinitroaniline
Aqueous/Solid	EPA 8330B	HPLC	3-Nitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	4-Amino-2,6-dinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	4-Nitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
Aqueous/Solid	EPA 8330B	HPLC	Nitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	Nitroglycerin
Aqueous/Solid	EPA 8330B	HPLC	Pentachloronitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	Pentaerythritoltetranitrate
Aqueous/Solid	EPA 8330B	HPLC	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)
Aqueous/Solid	EPA 8330B	HPLC	Tetryl (methyl-2,4,6-trinitrophenylnitramine)
Aqueous/Solid	EPA 9012B,	Colorimetry	Total Cyanide
Aqueous/Solid	EPA 9030B	Distillation Unit	Sulfide
Aqueous/Solid	EPA 9056A	IC	Bromide
Aqueous/Solid	EPA 9056A	IC	Chloride
Aqueous/Solid	EPA 9056A	IC	Fluoride

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 9056A	IC	Sulfate
Aqueous/Solid	EPA 9065	Spectrophotometer	Total Phenolics
Aqueous/Solid	LCP-NITG	HPLC/UV	Nitroguanidine
Aqueous/Solid	SM4500 NH3 G	Colorimetry	Ammonia
Aqueous/Solid	SOC-OTTO	GC-ECD	Otto Fuel
Aqueous/Solid	SOC-Butyl	GC-FPD	Di-n-butyltin
Aqueous/Solid	SOC-Butyl	GC-FPD	n-Butyltin
Aqueous/Solid	SOC-Butyl	GC-FPD	Tetra-n-butyltin
Aqueous/Solid	SOC-Butyl	GC-FPD	Tri-n-butyltin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Aldrin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Alpha-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	beta-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	DDD (4,4)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	DDE (4,4)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	DDT (4,4)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	delta-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Dieldrin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endosulfan I
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endosulfan II
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endosulfan sulfate
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endrin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endrin aldehyde
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endrin ketone
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	gamma-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Heptachlor
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Heptachlor Epoxide (beta)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Methoxychlor
Drinking Water	EPA 504	GC-ECD	1,2-Dibromo-3-chloropropane (DBCP)
Drinking Water	EPA 504	GC-ECD	1,2-Dibromoethane (EDB)
Drinking Water	EPA 524.2	GC-MS	1,1,1,2-Tetrachloroethane
Drinking Water	EPA 524.2	GC-MS	1,1,1-Trichloroethane
Drinking Water	EPA 524.2	GC-MS	1,1,2,2-Tetrachloroethane
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloroethane
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloroethene

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Columbia Analytical Services, Inc.

1317 South 13th Avenue, Kelso, WA 98626

Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	1,2,3-Trichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2,3-Trichloropropane
Drinking Water	EPA 524.2	GC-MS	1,2,4-Trichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2,4-Trimethylbenzene
Drinking Water	EPA 524.2	GC-MS	1,2-Dibromoethane (EDB)
Drinking Water	EPA 524.2	GC-MS	1,2-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2-Dichloroethane
Drinking Water	EPA 524.2	GC-MS	1,2-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	1,3,5-Trimethylbenzene
Drinking Water	EPA 524.2	GC-MS	1,3-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,3-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	1,4-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	2,2-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	2-Chlorotoluene
Drinking Water	EPA 524.2	GC-MS	4-Chlorotoluene
Drinking Water	EPA 524.2	GC-MS	4-Isopropyltoluene
Drinking Water	EPA 524.2	GC-MS	Benzene
Drinking Water	EPA 524.2	GC-MS	Bromobenzene
Drinking Water	EPA 524.2	GC-MS	Bromochloromethane
Drinking Water	EPA 524.2	GC-MS	Bromodichloromethane
Drinking Water	EPA 524.2	GC-MS	Bromoform
Drinking Water	EPA 524.2	GC-MS	Bromomethane
Drinking Water	EPA 524.2	GC-MS	Carbon Tetrachloride
Drinking Water	EPA 524.2	GC-MS	Chlorobenzene
Drinking Water	EPA 524.2	GC-MS	Chlorodibromomethane
Drinking Water	EPA 524.2	GC-MS	Chloroethane
Drinking Water	EPA 524.2	GC-MS	Chloroform
Drinking Water	EPA 524.2	GC-MS	Chloromethane
Drinking Water	EPA 524.2	GC-MS	cis-1,2-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	cis-1,3-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	Dibromomethane
Drinking Water	EPA 524.2	GC-MS	Dichlorodifluoromethane
Drinking Water	EPA 524.2	GC-MS	Dichloromethane (Methylene Chloride)

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Columbia Analytical Services, Inc.
1317 South 13th Avenue, Kelso, WA 98626
Julie Gish Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Drinking Water	EPA 524.2	GC-MS	Ethylbenzene
Drinking Water	EPA 524.2	GC-MS	Hexachlorobutadiene
Drinking Water	EPA 524.2	GC-MS	Isopropylbenzene
Drinking Water	EPA 524.2	GC-MS	m+p-Xylene
Drinking Water	EPA 524.2	GC-MS	Naphthalene
Drinking Water	EPA 524.2	GC-MS	n-Butylbenzene
Drinking Water	EPA 524.2	GC-MS	n-Propylbenzene
Drinking Water	EPA 524.2	GC-MS	o-Xylene
Drinking Water	EPA 524.2	GC-MS	sec-Butylbenzene
Drinking Water	EPA 524.2	GC-MS	Styrene
Drinking Water	EPA 524.2	GC-MS	tert-butylbenzene
Drinking Water	EPA 524.2	GC-MS	Tetrachloroethene
Drinking Water	EPA 524.2	GC-MS	Toluene
Drinking Water	EPA 524.2	GC-MS	trans-1,2-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	trans-1,3-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	Trichlorofluoromethane (Freon 11)
Drinking Water	EPA 524.2	GC-MS	Vinyl chloride
Drinking Water	EPA 524.2	GC-MS	Xylenes, total
Solid	ASTMD4129-92M, Lloyd Kahn	TOC Meter	Total Organic Carbons (TOC)
Solid	EPA 160.3M	Gravimetry	Solids, Total
Solid	EPA 7471A, B	CVAA	Mercury
Solid	EPA 9045D	pH Meter	pH
Solid	EPA 9056A	IC	Nitrate as N
Solid	EPA 9056A	IC	Nitrite as N
Solid	EPA 9071B	Gravimetry	Hexane Extractable Material (HEM)
Solid	GEN-AVS	Colorimetry	Acid Volatile Sulfides
Solid	GEN-NCEL	Colorimetry	Nitrocellulose
Solid	LCP-LCMS4	HPLC/MS/MS	1,3,5-Trinitrobenzene
Solid	LCP-LCMS4	HPLC/MS/MS	1,3-Dinitrobenzene
Solid	LCP-LCMS4	HPLC/MS/MS	2,4,6-Trinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	2,4-Dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	2,6-Dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	2-Amino-4,6-dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	3,5-Dinitroaniline

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Matrix	Standard / Method	Technology	Analyte
Solid	LCP-LCMS4	HPLC/MS/MS	4-Amino-2,6-dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
Solid	LCP-LCMS4	HPLC/MS/MS	Pentaerythritoltetranitrate
Solid	LCP-LCMS4	HPLC/MS/MS	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)
Solid	LCP-LCMS4	HPLC/MS/MS	Tetryl (methyl-2,4,6-trinitrophenylnitramine)
Solid	LCP-Nitro	HPLC/MS/MS	2,4-Dinitrophenol
Solid	LCP-Nitro	HPLC/MS/MS	Picramic Acid
Solid	LCP-Nitro	HPLC/MS/MS	Picric Acid
Solid	PSEP	Gravimetry	Particle Size

Matrix	Standard / Method	Technology	Analyte
Aqueous	EPA 1640	Reductive Metals Precipitation	Prep Method
Aqueous	EPA 3010A	Acid Digestion	Metals Digestion
Aqueous	EPA 3020A	Acid Digestion	Metals Digestion
Aqueous	EPA 3520C	Continuous Liquid-Liquid Extraction	Extractable Prep
Aqueous	EPA 3535A	Solid Phase Extraction	Prep Method
Aqueous	EPA 5030B	Purge and Trap for Volatiles	Volatile Prep
Aqueous	SOP-MET-DIG	Acid Digestion	Metals Digestion
Aqueous/Solids	EPA 1311	TCLP Extraction	Physical Extraction
Aqueous/Solids	EPA 3620C	Florisil clean up	Extractable Cleanup
Aqueous/Solids	EPA 3630C	Silica gel clean up	Extractable Prep
Aqueous/Solids	EPA 3640A	Gel-Permeation Clean-up	Extractable Cleanup
Aqueous/Solids	EPA 3660	Sulfur Clean-up	Extractable Prep
Aqueous/Solids	EPA 3665A	Acid clean up	Extractable Cleanup
Aqueous/Solids	ASTM D3590-89	Digestion	TKN
Solid	EPA 3050B	Acid Digestion	Metals Digestion
Solid	EPA 3060	Alkaline Digestion for Cr(VI)	Alkaline Digestion for Cr(VI) only
Solid	EPA 3541	Automated Soxhlet Extraction	Extractable Prep
Solid	EPA 3550B	Ultrasonic Extraction	Extractable Prep
Solid	EPA 5035A	Purge and Trap for Volatiles	Voc Organics
Solid	EPA 5050	Bomb Digestion	Prep Method
Solids	EPA 9013	Midi-Distillation	Cyanides

Ahtna Engineering Services, LLC
110 W. 38th St. Suite 200A
Anchorage, AK 99503
www.ahtnaes.com
Phone: 907.646.2969; Fax: 907.561.5475

8.0 EQ Representations and Certifications

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OFFEROR: **AHTNA Engineering Services, LLC**

REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS

Instructions:

Please complete the following and sign/date the signature page (Item 34). A purchase order / subcontract will not be issued prior to the return of this completed document to Environmental Quality Management, Inc. (EQ).

The offeror represents and certifies as part of its offer that:

1. CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (52.203-2) (APR 1985)

(a) The offeror certifies that—

(1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to—

(i) Those prices;

(ii) The intention to submit an offer; or

(iii) The methods or factors used to calculate the prices offered.

(2) The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law; and

(3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

(b) Each signature on the offer is considered to be a certification by the signatory that the signatory—

(1) Is the person in the offeror's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to paragraphs (a)(1) through (a)(3) of this provision; or

(2) (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to paragraphs (a)(1) through (a)(3) of this provision **Tim Finnigan, President** [*insert full name of person(s) in the offeror's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the offeror's organization*];

(ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) of this provision have not participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision; and

(iii) As an agent, has not personally participated, and will not participate, in any action contrary to paragraphs (a)(1) through (a)(3) of this provision.

(c) If the offeror deletes or modifies paragraph (a)(2) of this provision, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.

2. CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (FAR 52.203-11) (SEP 2007)

(a) *Definitions.* As used in this provision—"Lobbying contact" has the meaning provided at 2 U.S.C. 1602(8). The terms "agency," "influencing or attempting to influence," "officer or employee of an agency," "person," "reasonable compensation," and "regularly employed" are defined in the FAR clause of this solicitation entitled "Limitation on Payments to Influence Certain Federal Transactions" (52.203-12).

(b) *Prohibition*. The prohibition and exceptions contained in the FAR clause of this solicitation entitled "Limitation on Payments to Influence Certain Federal Transactions" (52.203-12) are hereby incorporated by reference in this provision.

(c) *Certification*. The offeror, by signing its offer, hereby certifies to the best of its knowledge and belief that no Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on its behalf in connection with the awarding of this contract.

(d) *Disclosure*. If any registrants under the Lobbying Disclosure Act of 1995 have made a lobbying contact on behalf of the offeror with respect to this contract, the offeror shall complete and submit, with its offer, OMB Standard Form LLL, Disclosure of Lobbying Activities, to provide the name of the registrants. The offeror need not report regularly employed officers or employees of the offeror to whom payments of reasonable compensation were made.

(e) *Penalty*. Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by 31 U.S.C. 1352.Any person who makes an expenditure prohibited under this provision or who fails to file or amend the disclosure required to be filed or amended by this provision, shall be subject to a civil penalty of not less than $10,000 for each such failure.

3. LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (FAR 52.203-12) (Oct 2010)

(a) *Definitions.* As used in this clause—

"Agency" means executive agency as defined in Federal Acquisition Regulation (FAR) 2.101.

"Covered Federal action" means any of the following Federal actions:

(1) Awarding any Federal contract.

(2) Making any Federal grant.

(3) Making any Federal loan.

(4) Entering into any cooperative agreement.

(5) Extending, continuing, renewing, amending, or modifying any Federal contract, grant, loan, or cooperative agreement.

"Indian tribe" and "tribal organization" have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C.450B) and include Alaskan Natives.

"Influencing or attempting to influence" means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

"Local government" means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

"Officer or employee of an agency" includes the following individuals who are employed by an agency:

(1) An individual who is appointed to a position in the Government under Title 5, United States Code, including a position under a temporary appointment.

(2) A member of the uniformed services, as defined in subsection 101(3), Title 37, United States Code.

(3) A special Government employee, as defined in section 202, Title 18, United States Code.

(4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5, United States Code, appendix 2.

"Person" means an individual, corporation, company, association, authority, firm, partnership, society, State, and local government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.

"Reasonable compensation" means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

"Reasonable payment" means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

"Recipient" includes the Contractor and all subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and *are* permitted by other Federal law.

"Regularly employed" means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such person for at least 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

"State" means a State of the United States, the District of Columbia, or an outlying area of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having governmental duties and powers.

(b) *Prohibition*. 31 U.S.C. 1352 prohibits a recipient of a Federal contract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal actions. In accordance with 31 U.S.C. 1352 the Contractor shall not use appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the award of this contractor the extension, continuation, renewal, amendment, or modification of this contract.

(1) The term *appropriated funds* does not include profit or fee from a covered Federal action.

(2) To the extent the Contractor can demonstrate that the Contractor has sufficient monies, other than Federal appropriated funds, the Government will assume that theses other monies were spent for any influencing activities that would be unallowable if paid for with Federal appropriated funds.

(c) *Exceptions.* The prohibition in paragraph (b) of this clause does not apply under the following conditions:

(1) Agency and legislative liaison by Contractor employees.

(i) Payment of reasonable compensation made to an officer or employee of the Contractor if the payment is for agency and legislative liaison activities not directly related to this contract. For purposes of this paragraph, providing any information specifically requested by an agency or Congress is permitted at any time.

(ii) Participating with an agency in discussions that are not related to a specific solicitation for any covered Federal action, but that concern—

(A) The qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities; or

(B) The application or adaptation of the person's products or services for an agency's use.

(iii) Providing prior to formal solicitation of any covered Federal action any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action;

(iv) Participating in technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and

(v) Making capability presentations prior to formal solicitation of any covered Federal action by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.

(2) Professional and technical services.

(i) A payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of

any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.

(ii) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.

(iii) As used in this paragraph (c)(2), "professional and technical services" are limited to advice and analysis directly applying any professional or technical discipline (for examples, see FAR 3.803(a)(2)(iii)).

(iv) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.

(3) Only those communications and services expressly authorized by paragraphs (c)(1) and (2) of this clause are permitted.

(d) Disclosure.

(1) If the Contractor did not submit OMB Standard Form LLL, Disclosure of Lobbying Activities, with its offer, but registrants under the Lobbying Disclosure Act of 1995 have subsequently made a lobbying contact on behalf of the Contractor with respect to this contract, the Contractor shall complete and submit OMB Standard Form LLL to provide the name of the lobbying registrants, including the individuals performing the services.

(2) If the Contractor did submit OMB Standard Form LLL disclosure pursuant to paragraph (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, and a change occurs that affects Block 10 of the OMB Standard Form LLL (name and address of lobbying registrant or individuals performing services), the Contractor shall, at the end of the calendar quarter in which the change occurs, submit to the Contracting Officer within 30 days an updated disclosure using OMB Standard Form LLL.

(e) Penalties.

(1) Any person who makes an expenditure prohibited under paragraph (b) of this clause or who fails to file or amend the disclosure to be filed or amended by paragraph (d) of this clause shall be subject to civil penalties as provided for by 31 U.S.C.1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.

(2) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.

(f) *Cost allowability*. Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.

(g) *Subcontracts.*

(1) The Contractor shall obtain a declaration, including the certification and disclosure in paragraphs (c) and (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, from each person requesting or receiving a subcontract exceeding $150,000 under this contract. The Contractor or subcontractor that awards the subcontract shall retain the declaration.

(2) A copy of each subcontractor disclosure form (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall, at the end of the calendar quarter in which the disclosure form is submitted by the subcontractor, submit to the Contracting Officer within 30 days a copy of all disclosures. Each subcontractor certification shall be retained in the subcontract file of the awarding Contractor.

(3) The Contractor shall include the substance of this clause, including this paragraph (g), in any subcontract exceeding $150,000.

4. TAXPAYER IDENTIFICATION (FAR 52.204-3) (OCT 1998)

(a) *Definitions.*

"Common parent," as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)," as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c) (3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) *Taxpayer Identification Number (TIN).*

[X] TIN: (b) (4)

[ ] TIN has been applied for.

[ ] TIN is not required because:

[ ] Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

[ ] Offeror is an agency or instrumentality of a foreign government;

[ ] Offeror is an agency or instrumentality of the Federal Government.

(e) *Type of organization.*

[ ] Sole proprietorship;

[ ] Partnership;

[ ] Corporate entity (not tax-exempt);

[ ] Corporate entity (tax-exempt);

[ ] Government entity (Federal, State, or local);

[ ] Foreign government;

[ ] International organization per 26 CFR 1.6049-4;

[X] Other **Limited Liability Company**

(f) *Common parent.*

[ ] Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

[x] Name and TIN of common parent:

Name **Ahtna Inc.**

TIN (b) (4)

5. WOMEN-OWNED BUSINESS (OTHER THAN SMALL BUSINESS) (FAR 52.204-5) (MAY 1999)

(a) *Definition.* "Women-owned business concern," as used in this provision, means a concern that is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

(b) *Representation. [Complete only if the offeror is a women-owned business concern and has not represented itself as a small business concern in paragraph (b)(1) of FAR 52.219-1, Small Business Program Representations, of this solicitation.]* The offeror represents that it [ ] is, [**X**] is not a women-owned business concern.

6. CERTIFICATION REGARDING RESPONSIBILITY MATTERS (FAR 52.209-5) (APR 2010)

(a) (1) The Offeror certifies, to the best of its knowledge and belief, that—

(i) The Offeror and/or any of its Principals—

(A) Are [ ] are not [**X**] presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have [ ] have not [**X**], within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or State antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property; property (if offeror checks "have", the offeror shall also see 52.209-7, if included in this solicitation); and

(C) Are [ ] are not [**X**] presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in paragraph (a)(1)(i)(B) of this provision; and

(D) Have [ ], have not [**X**] within a three-year period preceding this offer, been notified of any delinquent Federal taxes in an amount that exceeds $3,000 for which the liability remains unsatisfied.

(1) Federal taxes are considered delinquent if both of the following criteria apply:

(i) *The tax liability is finally determined*. The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.

(ii) *The taxpayer is delinquent in making payment*. A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.

(2) *Examples*.

(i) The taxpayer has received a statutory notice of deficiency, under I.R.C. § 6212, which entitles the taxpayer to seek Tax Court review of a proposed tax deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(ii) The IRS has filed a notice of Federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. § 6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek tax court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(iii) The taxpayer has entered into an installment agreement pursuant to I.R.C. § 6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.

(iv) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. 362 (the Bankruptcy Code).

(ii) The Offeror has [ ] has not [**X**] within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) "Principal," for the purposes of this certification, means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (*e.g.*, general manager; plant manager; head of a division, or business segment; and similar positions).

This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

(b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

7. PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS--REPRESENTATION (FAR 52.209-2) (Jul 2009)

(a) *Definition.* "Inverted domestic corporation" means a foreign incorporated entity which is treated as an inverted domestic corporation under 6 U.S.C. 395(b), *i.e.*, a corporation that used to be incorporated in the United States, or used to be a partnership in the United States, but now is incorporated in a foreign country, or is a subsidiary whose parent corporation is incorporated in a foreign country, that meets the criteria specified in 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).

(b) *Relation to Internal Revenue Code.* A foreign entity that is treated as an inverted domestic corporation for purposes of the Internal Revenue Code at 26 U.S.C. 7874 (or would be except that the inversion transactions were completed on or before March 4, 2003), is also an inverted domestic corporation for purposes of 6 U.S.C. 395 and for this solicitation provision (see FAR 9.108).

(c) *Representation*. By submission of its offer, the offeror represents that it is not an inverted domestic corporation and is not a subsidiary of one.

8. PLACE OF PERFORMANCE – SEALED BIDDING (FAR 52.214-14) (APR 1985)

(a) The bidder, in the performance of any contract resulting from this solicitation, [ ] intends, [**X**] does not intend [*check applicable box*] to use one or more plants or facilities located at a different address from the address of the bidder as indicated in this bid.

(b) If the bidder checks "intends" in paragraph (a) above, it shall insert in the spaces provided below the required information:

Place of Performance (Street Address, City, State, County, Zip Code)	Name and Address of Owner and Operator of the Plant or Facility if Other than Bidder
_____	_____
_____	_____

9. PLACE OF PERFORMANCE (FAR 52.215-6) (OCT 1997)

(a) The offeror or respondent, in the performance of any contract resulting from this solicitation, [ ] intends, [**X**] does not intend [check applicable block] to use one or more plants or facilities located at a different address from the address of the offeror or respondent as indicated in this proposal or response to request for information.

(b) If the offeror or respondent checks "intends" in paragraph (a) of this provision, it shall insert in the following spaces the required information:

Place of Performance (Street Address, City, State, County, Zip Code)	Name and Address of Owner and Operator of the Plant or Facility if Other than Offeror or Respondent
_____	_____
_____	_____

10. SMALL BUSINESS PROGRAM REPRESENTATIONS (FAR 52.219-1) (MAY 2004)

(a) (1) The North American Industry Classification System (NAICS) code for this acquisition is **237130 – POWER AND COMMUNICATION LINE AND RELATED STRUCTURES CONSTRUCTION** [Insert *Your Company's NAICS code]*.

(2) The small business size standard is **$33.5M** *[insert size standard for the above NAICS Code]*.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees – **Ahtna meets this size standard.**

(b) *Representations*.

(1) The offeror represents as part of its offer that it [X] is, [ ] is not a small business concern.

(2) [*Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.*] The offeror represents, for general statistical purposes, that it [X] is, [ ] is not, a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) [*Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.*] The offeror represents as part of its offer that it [ ] is, [X] is not a women-owned small business concern.

(4) [*Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.*] The offeror represents as part of its offer that it [ ] is, [X] is not a veteran-owned small business concern.

(5) [*Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.*] The offeror represents as part of its offer that it [ ] is, [X] is not a service-disabled veteran-owned small business concern.

(6) [*Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision*.] The offeror represents, as part of its offer, that –

(i) It [ ] is, [X] is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It [ ] is, [X] is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate of the HUBZone small business concern or concerns that are participating in the joint venture. [*The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture:* _____.] Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(c) *Definitions*. As used in this provision—

"Service-disabled veteran-owned small business concern"—

(1) Means a small business concern—

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern," means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

"Veteran-owned small business concern" means a small business concern—

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern," means a small business concern –

(1) That is at least 51 percent owned by one or more women; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(d) *Notice*.

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall –

(i) Be punished by imposition of fine, imprisonment, or both;

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act.

Alternate I (Apr 2002). As prescribed in **19.308**(a)(2), add the following paragraph (b)(7) to the basic provision:

(7) [*Complete if offeror represented itself as disadvantaged in paragraph (b)(2) of this provision.*] The offeror shall check the category in which its ownership falls:

___ Black American.

___ Hispanic American.

[X] Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

___ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

___ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

___ Individual/concern, other than one of the preceding.

11. EQUAL LOW BIDS (FAR 52.219-2) (OCT 1995)

(a) This provision applies to small business concerns only.

(b) The bidder's status as a labor surplus area (LSA) concern may affect entitlement to award in case of tie bids. If the bidder wishes to be considered for this priority, the bidder must identify, in the following space, the LSA in which the costs to be incurred on account of manufacturing or production (by the bidder or the first-tier subcontractors) amount to more than 50 percent of the contract price.

N/A

(c) Failure to identify the labor surplus areas as specified in paragraph (b) of this provision will preclude the bidder from receiving priority consideration. If the bidder is awarded a contract as a result of receiving priority consideration under this provision and would not have otherwise received award, the bidder shall perform the contract or cause the contract to be performed in accordance with the obligations of an LSA concern.

12. SMALL BUSINESS CONCERN REPRESENTATION FOR THE SMALL BUSINESS COMPETITIVENESS DEMONSTRATION PROGRAM (FAR 52.219-19) (OCT 2000)

(a) *Definition.* "Emerging small business" as used in this solicitation, means a small business concern whose size is no greater than 50 percent of the numerical size standard applicable to the North American Industry Classification system (NAICS) code assigned to a contracting opportunity.

(b) *[Complete only if the Offeror has represented itself under the provision at 52.219-1 as a small business concern under the size standards of this solicitation.]* The Offeror [X] is, [ ] is not an emerging small business.

(c) *[Complete only if the Offeror is a small business or an emerging small business, indicating its size range.]* Offeror's number of employees for the past 12 months *[check this column if size standard stated in solicitation is expressed in terms of number of employees]* or Offeror's average annual gross revenue for the last 3 fiscal years *[check this column if size standard stated in solicitation is expressed in terms of annual receipts]*. *[Check one of the following.]*

No. of Employees	Avg. Annual Gross Revenue
____ 50 or fewer	____ $1 million or less
____ 51 - 100	____ $1,000,001 - $2 million
____ 101 – 250	____ $2,000,001 - $3.5 million
[X] 251 – 500	____ $3,500,001 - $5 million
____ 501 – 750	____ $5,000,001 - $10 million
____ 751 - 1,000	____ $10,000,001 - $17 million
____ Over 1,000	[X] Over $17 million

13. SMALL BUSINESS SIZE REPRESENTATION FOR TARGETED INDUSTRY CATEGORIES UNDER THE SMALL BUSINESS COMPETITIVENESS DEMONSTRATION PROGRAM (FAR 52.219-21) (MAY 1999)

[Complete only if the Offeror has represented itself under the provision at 52.219-1 as a small business concern under the size standards of this solicitation.]

Offeror's number of employees for the past 12 months *[check this column if size standard stated in solicitation is expressed in terms of number of employees]* or Offeror's average annual gross revenue for the last 3 fiscal years (check this column if size standard stated in solicitation is expressed in terms of annual receipts). *[Check one of the following.]*

No. of Employees	Avg. Annual Gross Revenues
____ 50 or fewer	____ $1 million or less
____ 51 - 100	____ $1,000,001 - $2 million
____ 101 – 250	____ $2,000,001 - $3.5 million
[X] 251 – 500	____ $3,500,001 - $5 million
____ 501 – 750	____ $5,000,001 - $10 million
____ 751 - 1,000	____ $10,000,001 - $17 million
____ Over 1,000	[X] Over $17 million

14. SMALL DISADVANTAGED BUSINESS STATUS (FAR 52.219-22) (OCT 1999)

(a) *General.* This provision is used to assess an offeror's small disadvantaged business status for the purpose of obtaining a benefit on this solicitation. Status as a small business and status as a small disadvantaged business for general statistical purposes is covered by the provision at FAR 52.219-1, Small Business Program Representation.

(b) *Representations.*

(1) General. The offeror represents, as part of its offer, that it is a small business under the size standard applicable to this acquisition; and either--

[X] (i) It has received certification by the Small Business Administration as a small disadvantaged business concern consistent with 13 CFR 124, Subpart B; and

(A) No material change in disadvantaged ownership and control has occurred since its certification;

(B) Where the concern is owned by one or more disadvantaged individuals, the net worth of each individual upon whom the certification is based does not exceed $750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and

(C) It is identified, on the date of its representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration (PRO-Net); or

[ ] (ii) It has submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance with 13 CFR 124, Subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted.

(2) [ ] *For Joint Ventures.* The offeror represents, as part of its offer, that it is a joint venture that complies with the requirements at 13 CFR 124.1002(f) and that the representation in paragraph (b)(1) of this provision is accurate for the small disadvantaged business concern that is participating in the joint venture. *[The offeror shall enter the name of the small disadvantaged business concern that is participating in the joint venture: _____.]*

(c) *Penalties and Remedies.* Anyone who misrepresents any aspects of the disadvantaged status of a concern for the purposes of securing a contract or subcontract shall:

(1) Be punished by imposition of a fine, imprisonment, or both;

(2) Be subject to administrative remedies, including suspension and debarment; and

(3) Be ineligible for participation in programs conducted under the authority of the Small Business Act.

15. CERTIFICATION REGARDING KNOWLEDGE OF CHILD LABOR FOR LISTED END PRODUCTS (FAR 52.222-18)(FEB 2001)

(a) *Definition*. Forced of indentured child labor means all work or service—

(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or

(2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process or penalties.

(b) *Listed end products*. The following end product(s) being acquired under this solicitation is (are) included in the List of Products Requiring Contractor Certification as to Forced or Indentured Child Labor, identified by their country of origin. There is a reasonable basis to believe that listed end products from the listed countries of origin may have been mined, produced, or manufactured by forced or indentured child labor.

Listed End Product	**Listed Countries of Origin**
_____	_____
_____	_____

(c) *Certification*. The Government will not make award to an offeror unless the offeror, by checking the appropriate block, certifies to either paragraph (c)(1) or paragraph (c)(2) of this provision.

[X] (1) The offeror will not supply any end product listed in paragraph (b) of this provision that was mined, produced, or manufactured in a corresponding country as listed for that end product.

[ ] (2) The offeror may supply an end product listed in paragraph (b) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product. The offeror certifies that it has made a good faith effort to determine whether forced or indentured child labor was used to mine, produce, or manufacture such end product. On the basis of those efforts, the offeror certifies that it is not aware of any such use of child labor.

16. PROHIBITION OF SEGREGATED FACILITIES (FAR 52.222-21) (FEB 1999)

(a) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

(b) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.

(c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

17. PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FAR 52.222-22) (FEB 1999)

The offeror represents that--

(a) It **[X]** has, [ ] has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) It **[X]** has, [ ] has not filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

18. AFFIRMATIVE ACTION COMPLIANCE (FAR 52.222-25) (APR 1984)

The offeror represents that--

(a) It **[X]** has developed and has on file, [ ] has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or

(b) It [ ] has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

19. COMPLIANCE WITH VETERANS' EMPLOYMENT REPORTING REQUIREMENTS (FAR 52.222-38) (SEP 2010)

By submission of its offer, the offeror represents that, if it is subject to the reporting requirements of 38 U.S.C. 4212(d) (*i.e.*, if it has any contract containing Federal Acquisition Regulation clause 52.222-37, Employment Reports on Veterans), it has submitted the most recent VETS-100 Report required by that clause.

20. EXEMPTION FROM APPLICATION OF THE SERVICE CONTRACT ACT TO CONTRACTS FOR MAINTENANCE, CALLIBRATION, OR REPAIR OF CERTAIN EQUIPMENT CERTIFICATION (FAR 52.222-48) (FEB 2009)

(a) The offeror shall check the following certification:

CERTIFICATION

The offeror **[X]** does [ ] does not certify that—

(1) The items of equipment to be serviced under this contract are used regularly for other than Government purposes, and are sold or traded by the offeror (or subcontractor in the case of an exempt subcontractor) in substantial quantities to the general public in the course of normal business operations;

(2) The services will be furnished at prices which are, or are based on, established catalog or market prices for the maintenance, calibration, or repair of equipment.

(i) An "established catalog price" is a price included in a catalog, price list, schedule, or other form that is regularly maintained by the manufacturer or the offeror, is either published or otherwise available for inspection by customers, and states prices at which sales currently, or were last, made to a significant number of buyers constituting the general public.

(ii) An "established market price" is a current price, established in the usual course of trade between buyers and sellers free to bargain, which can be substantiated from sources independent of the manufacturer or offeror; and

(3) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract are the same as that used for these employees and equivalent employees servicing the same equipment of commercial customers.

(b) Certification by the offeror as to its compliance with respect to the contract also constitutes its certification as to compliance by its subcontractor if it subcontracts out the exempt services. If the offeror certifies to the conditions in paragraph (a) of this provision, and the Contracting Officer determines in accordance with FAR 22.1003-4(c)(3) that the Service Contract Act—

(1) Will not apply to this offeror, then the Service Contract Act of 1965 clause in this solicitation will not be included in any resultant contract to this offeror; or

(2) Will apply to this offeror, then the clause at 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements, in this solicitation will not be included in any resultant contract awarded to this offeror, and the offeror may be provided an opportunity to submit a new offer on that basis.

(c) If the offeror does not certify to the conditions in paragraph (a) of this provision—

(1) The clause in this solicitation at 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment—Requirements, will not be included in any resultant contract awarded to this offeror; and

(2) The offeror shall notify the Contracting Officer as soon as possible, if the Contracting Officer did not attach a Service Contract Act wage determination to the solicitation.

(d) The Contracting Officer may not make an award to the offeror, if the offeror fails to execute the certification in paragraph (a) of this provision or to contact the Contracting Officer as required in paragraph (c) of this provision.

21. EXEMPTION FROM APPLICATION OF THE SERVICE CONTRACT ACT TO CONTRACTS FOR CERTAIN SERVICES--CERTIFICATION (FAR 52.222-52) (NOV 2007)

(a) The offeror shall check the following certification:

CERTIFICATION

The offeror **[X]** does [ ] does not certify that—

(1) The services under the contract are offered and sold regularly to non-Governmental customers, and are provided by the offeror (or subcontractor in the case of an exempt subcontract) to the general public in substantial quantities in the course of normal business operations;

(2) The contract services are furnished at prices that are, or are based on, established catalog or market prices. An "established catalog price" is a price included in a catalog, price list, schedule, or other form that is regularly maintained by the manufacturer or the offeror, is either published or otherwise available for inspection by customers, and states prices at which sales currently, or were last, made to a significant number of buyers constituting the general public. An "established market price" is a current price, established in the usual course of ordinary and usual trade between buyers and sellers free to bargain, which can be substantiated from sources independent of the manufacturer or offeror;

(3) Each service employee who will perform the services under the contract will spend only a small portion of his or her time (a monthly average of less than 20 percent of the available hours on an annualized basis, or less than 20 percent of available hours during the contract period if the contract period is less than a month) servicing the Government contract; and

(4) The offeror uses the same compensation (wage and fringe benefits) plan for all service employees performing work under the contract as the offeror uses for these employees and for equivalent employees servicing commercial customers.

(b) Certification by the offeror as to its compliance with respect to the contract also constitutes its certification as to compliance by its subcontractor if it subcontracts out the exempt services. If the offeror certifies to the conditions in paragraph (a) of this provision, and the Contracting Officer determines in accordance with FAR 22.1003-4(d)(3) that the Service Contract Act—

(1) Will not apply to this offeror, then the Service Contract Act of 1965 clause in this solicitation will not be included in any resultant contract to this offeror; or

(2) Will apply to this offeror, then the clause at FAR 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements, in this solicitation will not be included in any resultant contract awarded to this offer, and the offeror may be provided an opportunity to submit a new offer on that basis.

(c) If the offeror does not certify to the conditions in paragraph (a) of this provision—

(1) The clause of this solicitation at 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements, will not be included in any resultant contract to this offeror; and

(2) The offeror shall notify the Contracting Officer as soon as possible if the Contracting Officer did not attach a Service Contract Act wage determination to the solicitation.

(d) The Contracting Officer may not make an award to the offeror, if the offeror fails to execute the certification in paragraph (a) of this provision or to contact the Contracting Officer as required in paragraph (c) of this provision.

22. BIOBASED PRODUCT CERTIFICATION (FAR 52.223-1) (DEC 2007)

As required by the Farm Security and Rural Investment Act of 2002 and the Energy Policy Act of 2005 (7 U.S.C. 8102(c)(3)), the offeror certifies, by signing this offer, that biobased products (within categories of products listed by the United States Department of Agriculture in 7 CFR part 2902, subpart B) to be used or delivered in the performance of the contract, other than biobased products that are not purchased by the offeror as a direct result of this contract, will comply with the applicable specifications or other contractual requirements.

23. RECOVERED MATERIAL CERTIFICATION (FAR 52.223-4) (MAY 2008)

As required by the Resource Conservation and Recovery Act of 1976 (42 U.S.C. 6962(c)(3)(A)(i)), the offeror certifies, by signing this offer, that the percentage of recovered materials content for EPA-designated items to be delivered or used in the performance of the contract will be at least the amount required by the applicable contract specifications or other contractual requirements.

24. ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA-DESIGNATED ITEMS (FAR 52.223-9) (MAY 2008)

(a) *Definitions*. As used in this clause—

"Postconsumer material" means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of "recovered material."

"Recovered material" means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

(b) The Contractor, on completion of this contract, shall—

(1) Estimate the percentage of the total recovered material content for EPA-designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of post-consumer material content; and

(2) Submit this estimate to _____[*Contracting Officer complete in accordance with agency procedures*].

(End of clause)

Alternate I (May 2008). As prescribed in 23.406(d), redesignate paragraph (b) of the basic clause as paragraph (c) and add the following paragraph (b) to the basic clause:

(b) The Contractor shall execute the following certification required by the Resource Conservation and Recovery Act of 1976 (42 U.S.C. 6962(i)(2)(C)):

CERTIFICATION

I, **Tim Finnigan, President** (name of certifier), am an officer or employee responsible for the performance of this contract and hereby certify that the percentage of recovered material content for EPA-designated items met the applicable contract specifications or other contractual requirements.

(Signature of the Officer or Employee)

Tim Finnigan
(Typed Name of the Officer or Employee

President
(Title)

Ahtna Engineering Services LLC
(Name of Company, Firm, or Organization)

27 March 2014
(Date)

25. CERTIFICATION OF TOXIC CHEMICAL RELEASE REPORTING (FAR 52.223-13) (AUG 2003)

(a) Executive Order 13148, of April 21, 2000, Greening the Government through Leadership in Environmental Management, requires submission of this certification as a prerequisite for contract award.

(b) By signing this offer, the offeror certifies that --

(1) As the owner or operator of facilities that will be used in the performance of this contract that are subject to the filing and reporting requirements described in section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11023) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13106), the offeror will file and continue to file for such facilities for the life of the contract the Toxic Chemical Release Inventory Form (Form R) as described in sections 313(a) and (g) of EPCRA and section 6607 of PPA; or

(2) None of its owned or operated facilities to be used in the performance of this contract is subject to the Form R filing and reporting requirements because each such facility is exempt for at least one of the following reasons: *[Check each block that is applicable.]*

[X] (i) The facility does not manufacture, process, or otherwise use any toxic chemicals listed in 40 CFR 372.65;

[ ] (ii) The facility does not have 10 or more full-time employees as specified in section 313(b)(1)(A) of EPCRA, 42 U.S.C. 11023(b)(1)(A);

[ ] (iii) The facility does not meet the reporting thresholds of toxic chemicals established under section 313(f) of EPCRA, 42 U.S.C. 11023(f) (including the alternate thresholds at 40 CFR 372.27, provided an appropriate certification form has been filed with EPA);

[X] (iv) The facility does not fall within the following Standard Industrial Classification (SIC) codes or their corresponding North American Industry Classification System sectors:

(A) Major group code 10 (except 1011, 1081, and 1094).

(B) Major group code 12 (except 1241).

(C) Major group codes 20 through 39.

(D) Industry code 4911, 4931, 4939 (limited to facilities that combust coal and/or oil for the purpose of generating power for distribution in commerce).

(E) Industry code 4953 (limited to facilities regulated under the Resource Conservation and Recovery Act, Subtitle C (42 U.S.C. 6921, *et seq.*)), or 5169, 5171, 7389 (limited to facilities primarily engaged in solvent recovery services on a contract or fee basis); or

[ ] (v) The facility is not located within any State of the United States or its outlying areas.

26. BUY AMERICAN ACT CERTIFICATE (FAR 52.225-2) (FEB 2009)

(a The offeror certifies that each end product, except those listed in paragraph (b) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The offeror shall list as foreign end products those end products manufactured in the United States that do not qualify as domestic end products, *i.e.*, an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of "domestic end product." The terms "commercially available off-the-shelf (COTS) item," "component," "domestic end product," "end product," "foreign end product," and "United States" are defined in the clause of this solicitation entitled "Buy American Act—Supplies."

(b) Foreign End Products:

Line Item No.:	Country of Origin:
N/A	N/A

[*List as necessary]*

(c) The Government will evaluate offers in accordance with the policies and procedures of Part 25 of the Federal Acquisition Regulation.

27. BUY AMERICAN ACT—FREE TRADE AGREEMENTS—ISRAELI TRADE ACT CERTIFICATE (FAR 52.225-4) (JUN 2009)

(a) The offeror certifies that each end product, except those listed in paragraph (b) or (c) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The terms " Bahrainian, Moroccan Omani, or Peruvian end product," "commercially available off-the-shelf (COTS) item, "component," "domestic end product," "end product," "foreign end product," "Free Trade Agreement country," "Free Trade Agreement country end product," "Israeli end product," and "United States" are defined in the clause of this solicitation entitled "Buy American Act—Free Trade Agreements—Israeli Trade Act."

(b) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Moroccan, Omani, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled "Buy American Act –Free Trade Agreements—Israeli Trade Act:

Free Trade Agreement Country End Products (Other than Bahrainian, Moroccan, Omani, or Peruvian End Products) or Israeli End Products:

LINE ITEM NO.	COUNTRY OF ORIGIN
_____	_____
_____	_____
_____	_____

[*List as necessary*]

(c) The offeror shall list those supplies that are foreign end products (other than those listed in paragraph (b) of this provision) as defined in the clause of this solicitation entitled "Buy American Act—Free Trade Agreements—Israeli Trade Act." The offeror shall list as other foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of "domestic end product."

Other Foreign End Products:

LINE ITEM NO. COUNTRY OF ORIGIN

_____ _____

_____ _____

_____ _____

[*List as necessary*]

(d) The Government will evaluate offers in accordance with the policies and procedures of Part 25 of the Federal Acquisition Regulation.

Alternate I (Jan 2004). As prescribed in 25.1101(b)(2)(ii), substitute the following paragraph (b) for paragraph (b) of the basic provision:

(b) The offeror certifies that the following supplies are Canadian end products as defined in the clause of this solicitation entitled "Buy American Act—Free Trade Agreements—Israeli Trade Act":

Canadian End Products:

LINE ITEM NO.

_____

_____

_____

[*List as necessary*]

Alternate II (Jan 2004). As prescribed in 25.1101(b)(2)(iii), substitute the following paragraph (b) for paragraph (b) of the basic provision:

(b) The offeror certifies that the following supplies are Canadian end products or Israeli end products as defined in the clause of this solicitation entitled "Buy American Act—Free Trade Agreements—Israeli Trade Act":

CANADIAN OR ISRAELI END PRODUCTS:

LINE ITEM NO. COUNTRY OF ORIGIN

_____ _____

_____ _____

_____ _____

[*List as necessary*]

28. TRADE AGREEMENTS CERTIFICATE (FAR 52.225-6) (JAN 2005)

(a) The offeror certifies that each end product, except those listed in paragraph (b) of this provision is a U.S.-made or designated country end product, as defined in the clause of this solicitation entitled "Trade Agreements."

(b) The offeror shall list as other end products those supplies that are not U.S.-made or designated country end products.

Other End Products

Line Item No. Country of Origin:

_____ _____

_____ _____

_____ _____

[*List as necessary*]

(c) The Government will evaluate offers in accordance with the policies and procedures of Part 25 of the Federal Acquisition Regulation. For line items covered by the WTO GPA, the Government will evaluate offers of U.S.-made or designated country end products without regard to the restrictions of the Buy American Act. The Government will consider for award only offers of U.S.-made or designated country end products unless the Contracting Officer determines that there are no offers for such products or that the offers for those products are insufficient to fulfill the requirements of this solicitation.

29. PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN—CERTIFICATION (FAR 52.225-20) (AUG 2009)

(a) *Definitions*. As used in this provision—

"Business operations" means engaging in commerce in any form, including by acquiring, developing, maintaining, owning, selling, possessing, leasing, or operating equipment, facilities, personnel, products, services, personal property, real property, or any other apparatus of business or commerce.

"Marginalized populations of Sudan" means—

(1) Adversely affected groups in regions authorized to receive assistance under section 8(c) of the Darfur Peace and Accountability Act (Pub. L. 109-344) (50 U.S.C. 1701 note); and

(2) Marginalized areas in Northern Sudan described in section 4(9) of such Act.

"Restricted business operations" means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person (as that term is defined in Section 2 of the Sudan Accountability and Divestment Act of 2007) conducting the business can demonstrate—

(1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;

(2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;

(3) Consist of providing goods or services to marginalized populations of Sudan;

(4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;

(5) Consist of providing goods or services that are used only to promote health or education; or

(6) Have been voluntarily suspended.

(b) *Certification.* By submission of its offer, the offeror certifies that the offeror does not conduct any restricted business operations in Sudan.

30. PROHIBITION ON ENGAGING IN SANCTIONED ACTIVITIES RELATING TO IRAN—CERTIFICATION (FAR 52.225-25) (Sep 2010)

(a) *Definition.*

Person--

(1) Means--

(i) A natural person;

(ii) A corporation, business association, partnership, society, trust, financial institution, insurer, underwriter, guarantor, and any other business organization, any other nongovernmental entity, organization, or group, and any governmental entity operating as a business enterprise; and

(iii) Any successor to any entity described in paragraph (1)(ii) of this definition; and

(2) Does not include a government or governmental entity that is not operating as a business enterprise.

(b) Certification. Except as provided in paragraph (c) of this provision or if a waiver has been granted in accordance with FAR 25.703-2(d), by submission of its offer, the offeror certifies that the offeror, or any person owned or controlled by the offeror, does not engage in any activities for which sanctions may be imposed under section 5 of the Iran Sanctions Act of 1996. These sanctioned activities are in the areas of development of the petroleum resources of Iran, production of refined petroleum products in Iran, sale and provision of refined petroleum products to Iran, and contributing to Iran's ability to acquire or develop certain weapons.

(c) Exception for trade agreements. The certification requirement of paragraph (b) of this provision does not apply if--

(1) This solicitation includes a trade agreements certification (e.g., 52.225-4, 52.225-11 or comparable agency provision);

and

(2) The offeror has certified that all the offered products to be supplied are designated country end products or designated country construction material.

31. HISTORICALLY BLACK COLLEGE OR UNIVERSITY AND MINORITY INSTITUTION REPRESENTATION (FAR 52.226-2) (OCT 2008)

(a) *Definitions*. As used in this provision—

"Historically Black College or University" means an institution determined by the Secretary of Education to meet the requirements of 34 CFR 608.2. For the Department of Defense, the National Aeronautics and Space Administration, and the Coast Guard, the term also includes any nonprofit research institution that was an integral part of such a college or university before November 14, 1986.

"Minority institution" means an institution of higher education meeting the requirements of Section 365(3) of the Higher Education Act of 1965 (20 U.S.C. 1067k), including a Hispanic-serving institution of higher education, as defined in Section 502(a) of the Act (20 U.S.C. 1101a).

(b) *Representation*. The offeror represents that it—

[ ] is **[X]** is not a historically black college or university;

[] is **[X]** is not a minority institution.

32. ROYALTY INFORMATION (FAR 52.227-6) (APR 1984)

(a) *Cost or charges for royalties*. When the response to this solicitation contains costs or charges for royalties totaling more than $250, the following information shall be included in the response relating to each separate item of royalty or license fee:

(1) Name and address of licensor.

(2) Date of license agreement.

(3) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable.

(4) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable.

(5) Percentage or dollar rate of royalty per unit.

(6) Unit price of contract item.

(7) Number of units.

(8) Total dollar amount of royalties.

(b) *Copies of current licenses*. In addition, if specifically requested by the Contracting Officer before execution of the contract, the offeror shall furnish a copy of the current license agreement and an identification of applicable claims of specific patents.

33. REPRESENTATION OF LIMITED RIGHTS DATA AND RESTRICTED COMPUTER SOFTWARE (FAR 52.227-15) (DEC 2007)

(a) This solicitation sets forth the Government's known delivery requirements for data (as defined in the clause at 52.227-14, Rights in Data—General). Any resulting contract may also provide the Government the option to order additional data under the

Additional Data Requirements clause at 52.227-16, if included in the contract. Any data delivered under the resulting contract will be subject to the Rights in Data—General clause at 52.227-14 included in this contract. Under the latter clause, a Contractor may withhold from delivery data that qualify as limited rights data or restricted computer software, and deliver form, fit, and function data instead. The latter clause also may be used with its Alternates II and/or III to obtain delivery of limited rights data or restricted computer software, marked with limited rights or restricted rights notices, as appropriate. In addition, use of Alternate V with this latter clause provides the Government the right to inspect such data at the Contractor's facility.

(b) By completing the remainder of this paragraph, the offeror represents that it has reviewed the requirements for the delivery of technical data or computer software and states [*offeror check appropriate block*]—

[X] (1) None of the data proposed for fulfilling the data delivery requirements qualifies as limited rights data or restricted computer software; or

[ ] (2) Data proposed for fulfilling the data delivery requirements qualify as limited rights data or restricted computer software and are identified as follows:

_____

_____

(c) Any identification of limited rights data or restricted computer software in the offeror's response is not determinative of the status of the data should a contract be awarded to the offeror.

34. ORGANIZATIONAL CONFLICT OF INTEREST NOTIFICATION (EPAAR 1552-209-70) (APR 1984)

(a) The prospective Contractor certifies, to the best of its knowledge and belief, that it is not aware of any information bearing on the existence of any potential organizational conflict of interest. If the prospective Contractor cannot so certify, it shall provide a disclosure statement in its proposal which describes all relevant information concerning any past, present, or planned interests bearing on whether it (including its chief executives and directors, or any proposed consultant or subcontractor) may have a potential organizational conflict of interest.

(b) Prospective Contractors should refer to FAR subpart 9.5 and EPAAR part 1509 for policies and procedures for avoiding, neutralizing, or mitigating organizational conflicts of interest.

(c) If the Contracting Officer determines that a potential conflict exists, the prospective Contractor shall not receive an award unless the conflict can be avoided or otherwise resolved through the inclusion of a special contract clause or other appropriate means. The terms of any special clause are subject to negotiation.

35. ORGANIZATIONAL CONFLICT OF INTEREST CERTIFICATION (EPAAR 1552.209-72) (APR 1984)

The offeror [ ] is **[X]** is not aware of any information bearing on the existence of any potential organizational conflict of interest. If the offeror is aware of information bearing on whether a potential conflict may exist, the offeror shall provide a disclosure statement describing this information.

36. SOCIAL SECURITY NUMBERS OF CONSULTANTS AND CERTAIN SOLE PROPRIETORS AND PRIVACY ACT STATEMENT (EPAAR 1552.224-70) (APR 1984)

(a) Section 6041 of Title 26 of the U.S. Code requires EPA to file Internal Revenue Service (IRS) Form 1099 with respect to individuals who receive payments from EPA under purchase orders or contracts. Section 6109 of Title 26 of the U.S. Code authorizes collection by EPA of the social security numbers of such individuals for the purpose of filing IRS Form 1099. Social security numbers obtained for this purpose will be used by EPA for the sole purpose of filing IRS Form 1099 in compliance with Section 6041 of Title 26 of the U.S. Code.

(b) If the offeror or quoter is an individual, consultant, or sole proprietor and has no Employer Identification Number, insert the offeror's or quoter's social security number on the following line.

N/A

37. COMPLIANCE WITH VETERANS EMPLOYMENT REPORTING REQUIREMENTS (EP-S 99-1) (FEB 1999) DEVIATION

(a) The Offeror represents that, if it is subject to the reporting requirements of 38 U.S.C. 4212(d) (i.e. the VETS-100 report required by the Federal Acquisition Regulation clause 52.222-37, Employment Reports on Disabled Veterans and Veterans of the Vietnam Era), it has**[X]** has not [ ] submitted the most recent report required by 38 U.S.C. 4212(d).

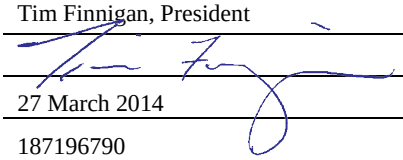
(b) An Offeror who checks "has not" may not be awarded a contract until the required reports are filed. (31 U.S.C. 1354)

38. ONLINE REPRESENTATIONS AND CERTIFICATIONS

The U.S. Government has a website ~~(http://orca.bpn.gov) in which prospective contractors who are registered on the Central Contractor Registration (CCR)~~ **System for Award Management (SAM)** and can complete electronic annual representations and certifications. The Offeror represents that it has **[X]** has not [ ] completed online representations and certifications via the ~~ORCA~~ **SAM** website.

39. SIGNATURE BLOCK

This is to certify, to the best of my knowledge and belief that the representations and certifications made herein by the offeror are accurate and current as of the date indicated below.

Offeror's Name:	Ahtna Engineering Services, Inc.
Address:	110 West 38th Avenue, Suite 200A, Anchorage, AK 99503
Names of Person Authorized to Size:	Tim Finnigan, President
Signature:	
Date:	27 March 2014
DUNS No.	187196790

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Ahtna Engineering Services, LLC
110 W. 38th St. Suite 200A
Anchorage, AK 99503
www.ahtnaes.com
Phone: 907.646.2969; Fax: 907.561.5475

9.0 Proof of Insurance

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 08/30/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Marsh & McLennan Agency LLC
1031 W. 4th Avenue P: (907) 276-5617
Suite #400 F: (907) 276-6292
Anchorage, AK 99501
Attn: Todd Green (907) 339-2220
101797-ktb-GAWEP-13/14 06

CONTACT NAME:
PHONE (A/C, No, Ext): **FAX (A/C, No):**
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A :	Evanston Insurance Company	35378
INSURER B :	Zurich American Insurance Company	16535
INSURER C :	Navigators Specialty Insurance Company	36056
INSURER D :	American Zurich Insurance Company	40142
INSURER E :		
INSURER F :		

INSURED
Ahtna Engineering Services, LLC
3680 Industrial Blvd., Suite 600H
West Sacramento, CA 95691

COVERAGES **CERTIFICATE NUMBER:** SEA-002136186-25 **REVISION NUMBER:** 6

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	**GENERAL LIABILITY**			13EGLWE00008	09/01/2013	09/01/2014	EACH OCCURRENCE	$	2,000,000
	X COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$	300,000
	CLAIMS-MADE X OCCUR						MED EXP (Any one person)	$	10,000
	X Deductible: $50,000						PERSONAL & ADV INJURY	$	2,000,000
							GENERAL AGGREGATE	$	2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$	2,000,000
	POLICY X PRO-JECT LOC							$	
B	**AUTOMOBILE LIABILITY**			BAP428127706	09/01/2013	09/01/2014	COMBINED SINGLE LIMIT (Ea accident)	$	1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$	
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$	
	HIRED AUTOS / NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$	
								$	
C	UMBRELLA LIAB X OCCUR			SF13EXC734987IC	09/01/2013	09/01/2014	EACH OCCURRENCE	$	5,000,000
	X EXCESS LIAB / CLAIMS-MADE						AGGREGATE	$	5,000,000
	DED / RETENTION $							$	
D	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N			WC4281274-06	09/01/2013	09/01/2014	X WC STATU-TORY LIMITS / OTH-ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) N	N / A					E.L. EACH ACCIDENT	$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$	1,000,000
							E.L. DISEASE - POLICY LIMIT	$	1,000,000
A	Contractor's Pollution & Professional Liability			13CPLCWE00024	09/01/2013	09/01/2014	Each Occurence		2,000,000
							Aggregate		2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

RE: Evidence of Insurance.
The Umbrella/Excess policy provides limits excess of the automobile liability, general liability, contractor's pollution liability, and employer's liability coverages.

CERTIFICATE HOLDER

Ahtna Engineering Services, LLC
3100 Beacon Blvd
West Sacramento CA 95691

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.
Kirk C. Leadbetter

AGENCY CUSTOMER ID: 101797
LOC #: Anchorage

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
Marsh & McLennan Agency LLC	Ahtna Engineering Services, LLC 3680 Industrial Blvd., Suite 600H West Sacramento, CA 95691
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

This is evidence of insurance procured and developed under the Alaska Surplus Lines Law, AS 21.34. It is not covered by the Alaska Insurance Guaranty Association Act, AS 21.80. Applies to Companies A and C Only.